



150 SAT ADVANCED MATH PRACTICE QUESTIONS

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SAT Advanced Math Mastery – 150 Practice Questions

Topic	Questions
Quadratic equations	40
Polynomial operations	25
Exponential functions	25
Radical expressions	20
Rational expressions	20
Function notation & transformations	20
Total	150

What these include

- Factoring quadratics
- Solving quadratic equations
- Polynomial addition/multiplication
- Exponential growth/decay
- Square roots & radicals
- Rational algebra
- Function notation $f(x)$

Quadratic Formula Reference

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

This formula is commonly used to solve quadratic equations of the form $ax^2 + bx + c = 0$.

Quadratic Equations (Q201–Q240)

Question 201

Solve for x : $x^2 - 9 = 0$

- A. 3
- B. -3
- C. 3 and -3
- D. 0

Answer: **C**

Question 202

Solve: $x^2 - 4x = 0$

- A. 0 and 4
- B. 2 and -2
- C. 4
- D. -4

Answer: **A**

Question 203

Solve: $x^2 - 5x + 6 = 0$

- A. 1 and 6
- B. 2 and 3
- C. 3 and 5
- D. 1 and 5

Answer: **B**

Question 204

Solve: $x^2 - 7x + 10 = 0$

- A. 2 and 5
- B. 3 and 4
- C. 1 and 10
- D. 2 and 7

Answer: **A**

Question 205

Solve: $x^2 - 6x + 9 = 0$

- A. 3
- B. -3
- C. 3 and -3
- D. 9

Answer: **A**

Question 206

Solve: $x^2 - x - 6 = 0$

- A. 3 and -2
- B. 2 and -3
- C. 6 and -1
- D. 1 and -6

Answer: **A**

Question 207

Solve: $x^2 + x - 6 = 0$

- A. 3 and -2
- B. 2 and -3
- C. 6 and -1
- D. 1 and -6

Answer: **B**

Question 208

Solve: $x^2 - 3x - 10 = 0$

- A. 5 and -2
- B. 2 and -5
- C. 10 and -1
- D. 1 and -10

Answer: **A**

Question 209

Solve: $x^2 - 8x + 15 = 0$

- A. 3 and 5
- B. 2 and 6
- C. 4 and 4
- D. 1 and 15

Answer: A

Question 210

Solve: $x^2 - 2x - 8 = 0$

- A. 4 and -2
- B. 2 and -4
- C. 8 and -1
- D. 1 and -8

Answer: A

Question 211

Solve: $x^2 - 11x + 24 = 0$

- A. 3 and 8
- B. 4 and 6
- C. 2 and 12
- D. 1 and 24

Answer: A

Question 212

Solve: $x^2 - 9x + 14 = 0$

- A. 2 and 7
- B. 3 and 6
- C. 1 and 14
- D. 4 and 5

Answer: A

Question 213

Solve: $x^2 + 5x + 6 = 0$

- A. -2 and -3
- B. 2 and 3
- C. -1 and -6
- D. 1 and 6

Answer: A

Question 214

Solve: $x^2 + 7x + 12 = 0$

- A. -3 and -4
- B. 3 and 4
- C. -2 and -6
- D. 2 and 6

Answer: **A**

Question 215

Solve: $x^2 + 9x + 20 = 0$

- A. -4 and -5
- B. 4 and 5
- C. -2 and -10
- D. 2 and 10

Answer: **A**

Question 216

Solve: $x^2 + 6x + 8 = 0$

- A. -2 and -4
- B. 2 and 4
- C. -1 and -8
- D. 1 and 8

Answer: **A**

Question 217

Solve: $x^2 - 12x + 35 = 0$

- A. 5 and 7
- B. 3 and 9
- C. 4 and 8
- D. 1 and 35

Answer: **A**

Question 218

Solve: $x^2 - 13x + 40 = 0$

- A. 5 and 8
- B. 4 and 10
- C. 2 and 20
- D. 1 and 40

Answer: **A**

Question 219

Solve: $x^2 - 10x + 21 = 0$

- A. 3 and 7
- B. 4 and 6
- C. 2 and 9
- D. 1 and 21

Answer: **A**

Question 220

Solve: $x^2 - 14x + 45 = 0$

- A. 5 and 9
- B. 6 and 8
- C. 3 and 15
- D. 1 and 45

Answer: **A**

Question 221

Solve: $x^2 - 15x + 56 = 0$

- A. 7 and 8
- B. 6 and 9
- C. 4 and 14
- D. 2 and 28

Answer: **A**

Question 222

Solve: $x^2 - 16x + 63 = 0$

- A. 7 and 9
- B. 6 and 10
- C. 3 and 21
- D. 1 and 63

Answer: **A**

Question 223

Solve: $x^2 - 17x + 72 = 0$

- A. 8 and 9
- B. 7 and 10
- C. 6 and 12
- D. 3 and 24

Answer: **A**

Question 224

Solve: $x^2 - 18x + 81 = 0$

- A. 9
- B. -9
- C. 9 and -9
- D. 81

Answer: **A**

Question 225

Solve: $x^2 - 19x + 90 = 0$

- A. 9 and 10
- B. 8 and 11
- C. 6 and 15
- D. 5 and 18

Answer: **A**

Question 226

Solve: $x^2 - 20x + 96 = 0$

- A. 12 and 8
- B. 6 and 16
- C. 4 and 24
- D. 3 and 32

Answer: **A**

Question 227

Solve: $x^2 - 21x + 110 = 0$

- A. 10 and 11
- B. 9 and 12
- C. 5 and 22
- D. 2 and 55

Answer: **A**

Question 228

Solve: $x^2 - 22x + 121 = 0$

- A. 11
- B. -11
- C. 11 and -11
- D. 121

Answer: **A**

Question 229

Solve: $x^2 - 23x + 132 = 0$

- A. 11 and 12
- B. 10 and 13
- C. 6 and 22
- D. 4 and 33

Answer: **A**

Question 230

Solve: $x^2 - 24x + 143 = 0$

- A. 11 and 13
- B. 10 and 14
- C. 7 and 20
- D. 5 and 28

Answer: A

Question 231

Solve: $x^2 - 25x + 156 = 0$

- A. 12 and 13
- B. 11 and 14
- C. 6 and 26
- D. 3 and 52

Answer: A

Question 232

Solve: $x^2 - 26x + 169 = 0$

- A. 13
- B. -13
- C. 13 and -13
- D. 169

Answer: A

Question 233

Solve: $x^2 - 27x + 182 = 0$

- A. 13 and 14
- B. 12 and 15
- C. 7 and 26
- D. 2 and 91

Answer: A

Question 234

Solve: $x^2 - 28x + 195 = 0$

- A. 13 and 15
- B. 12 and 16
- C. 9 and 22
- D. 5 and 39

Answer: A

Question 235

Solve: $x^2 - 29x + 210 = 0$

- A. 14 and 15
- B. 13 and 16
- C. 10 and 21
- D. 7 and 30

Answer: **A**

Question 236

Solve: $x^2 - 30x + 225 = 0$

- A. 15
- B. -15
- C. 15 and -15
- D. 225

Answer: **A**

Question 237

Solve: $x^2 - 31x + 240 = 0$

- A. 15 and 16
- B. 14 and 17
- C. 12 and 20
- D. 10 and 24

Answer: **A**

Question 238

Solve: $x^2 - 32x + 255 = 0$

- A. 15 and 17
- B. 14 and 18
- C. 10 and 25
- D. 5 and 51

Answer: **A**

Question 239

Solve: $x^2 - 33x + 272 = 0$

- A. 16 and 17
- B. 15 and 18

- C. 12 and 22
- D. 8 and 34

Answer: **A**

Question 240

Solve: $x^2 - 34x + 289 = 0$

- A. 17
- B. -17
- C. 17 and -17
- D. 289

Answer: **A**

Here are **Polynomial Operations – 25 SAT-style questions**

Range: Q241–Q265

Topic: Polynomial addition, subtraction, multiplication, and simplification.

Polynomial Operations (Q241–Q265)

Question 241

Simplify: $(3x^2 + 2x) + (4x^2 - x)$

- A. $7x^2 + x$
- B. $7x^2 + 3x$
- C. $3x^2 + x$
- D. $4x^2 + x$

Answer: **A**

Question 242

Simplify: $(5x^2 + 3x + 2) + (2x^2 - x + 4)$

- A. $7x^2 + 2x + 6$
- B. $7x^2 + 4x + 6$

- C. $3x^2 + 2x + 6$
- D. $5x^2 + 2x + 6$

Answer: **A**

Question 243

Simplify: $(6x^2 + 4x) - (2x^2 + x)$

- A. $4x^2 + 3x$
- B. $4x^2 + 5x$
- C. $8x^2 + 3x$
- D. $2x^2 + 3x$

Answer: **A**

Question 244

Simplify: $(7x^2 + 5x) - (3x^2 + 2x)$

- A. $4x^2 + 3x$
- B. $10x^2 + 7x$
- C. $4x^2 + 7x$
- D. $3x^2 + 3x$

Answer: **A**

Question 245

Simplify: $(2x + 3)(x + 4)$

- A. $2x^2 + 11x + 12$
- B. $2x^2 + 7x + 12$
- C. $x^2 + 7x + 12$
- D. $2x^2 + 9x + 12$

Answer: **A**

Question 246

Simplify: $(x + 5)(x + 2)$

- A. $x^2 + 7x + 10$
- B. $x^2 + 10x + 7$
- C. $x^2 + 5x + 2$
- D. $x^2 + 8x + 10$

Answer: **A**

Question 247

Simplify: $(3x + 2)(x + 6)$

- A. $3x^2 + 20x + 12$
- B. $3x^2 + 18x + 12$
- C. $3x^2 + 8x + 12$
- D. $x^2 + 8x + 12$

Answer: **A**

Question 248

Simplify: $(4x + 1)(x + 3)$

- A. $4x^2 + 13x + 3$
- B. $4x^2 + 12x + 3$
- C. $4x^2 + 7x + 3$
- D. $x^2 + 13x + 3$

Answer: **A**

Question 249

Simplify: $(2x - 3)(x + 5)$

- A. $2x^2 + 7x - 15$
- B. $2x^2 + 10x - 15$
- C. $2x^2 - x - 15$
- D. $2x^2 + 5x - 15$

Answer: **A**

Question 250

Simplify: $(x - 4)(x + 2)$

- A. $x^2 - 2x - 8$
- B. $x^2 - 8x - 2$
- C. $x^2 - 4x - 2$
- D. $x^2 - 2x - 4$

Answer: **A**

Question 251

Simplify: $(3x + 4)(x + 1)$

- A. $3x^2 + 7x + 4$
- B. $3x^2 + 4x + 4$
- C. $3x^2 + 5x + 4$
- D. $x^2 + 7x + 4$

Answer: **A**

Question 252

Simplify: $(2x + 7)(x + 3)$

- A. $2x^2 + 13x + 21$
- B. $2x^2 + 10x + 21$
- C. $2x^2 + 7x + 21$
- D. $x^2 + 13x + 21$

Answer: **A**

Question 253

Simplify: $(5x + 1)(x + 4)$

- A. $5x^2 + 21x + 4$
- B. $5x^2 + 20x + 4$
- C. $5x^2 + 5x + 4$
- D. $x^2 + 21x + 4$

Answer: **A**

Question 254

Simplify: $(x + 6)(x + 7)$

- A. $x^2 + 13x + 42$
- B. $x^2 + 42x + 13$
- C. $x^2 + 7x + 42$
- D. $x^2 + 6x + 42$

Answer: **A**

Question 255

Simplify: $(4x + 5)(x + 2)$

- A. $4x^2 + 13x + 10$
- B. $4x^2 + 10x + 10$
- C. $4x^2 + 5x + 10$
- D. $x^2 + 13x + 10$

Answer: **A**

Question 256

Simplify: $(2x - 1)(x + 8)$

- A. $2x^2 + 15x - 8$
- B. $2x^2 + 16x - 8$
- C. $2x^2 + 7x - 8$
- D. $2x^2 + 8x - 8$

Answer: **A**

Question 257

Simplify: $(x - 5)(x + 4)$

- A. $x^2 - x - 20$
- B. $x^2 - 20x - 1$
- C. $x^2 - 5x - 20$
- D. $x^2 - x - 5$

Answer: **A**

Question 258

Simplify: $(3x + 2)(x + 3)$

- A. $3x^2 + 11x + 6$
- B. $3x^2 + 9x + 6$
- C. $3x^2 + 6x + 6$
- D. $x^2 + 11x + 6$

Answer: **A**

Question 259

Simplify: $(4x + 3)(x + 5)$

- A. $4x^2 + 23x + 15$
- B. $4x^2 + 20x + 15$
- C. $4x^2 + 15x + 15$
- D. $x^2 + 23x + 15$

Answer: **A**

Question 260

Simplify: $(x + 9)(x + 1)$

- A. $x^2 + 10x + 9$
- B. $x^2 + 9x + 1$
- C. $x^2 + 8x + 9$
- D. $x^2 + 10x + 1$

Answer: **A**

Question 261

Simplify: $(2x + 5)(x + 6)$

- A. $2x^2 + 17x + 30$
- B. $2x^2 + 12x + 30$
- C. $2x^2 + 11x + 30$
- D. $x^2 + 17x + 30$

Answer: **A**

Question 262

Simplify: $(x - 3)(x + 8)$

- A. $x^2 + 5x - 24$
- B. $x^2 + 8x - 24$
- C. $x^2 + 5x - 3$
- D. $x^2 + 11x - 24$

Answer: **A**

Question 263

Simplify: $(5x + 2)(x + 7)$

- A. $5x^2 + 37x + 14$
- B. $5x^2 + 35x + 14$
- C. $5x^2 + 14x + 14$
- D. $x^2 + 37x + 14$

Answer: **A**

Question 264

Simplify: $(3x + 5)(x + 4)$

- A. $3x^2 + 17x + 20$
- B. $3x^2 + 12x + 20$

- C. $3x^2 + 9x + 20$
- D. $x^2 + 17x + 20$

Answer: **A**

Question 265

Simplify: $(x + 2)(x + 10)$

- A. $x^2 + 12x + 20$
- B. $x^2 + 10x + 20$
- C. $x^2 + 12x + 10$
- D. $x^2 + 2x + 20$

Answer: **A**

Here are **Exponential Functions – 25 SAT-style questions**

We often model exponential growth or decay with:

$$y = a \cdot b^x$$

where a is the initial value and b is the growth or decay factor.

Exponential Functions (Q266–Q290)

Question 266

What is the value of 2^3 ?

- A. 6
- B. 8
- C. 9
- D. 12

Answer: **B**

Question 267

Evaluate 3^2 .

- A. 6
- B. 8
- C. 9
- D. 12

Answer: **C**

Question 268

Evaluate 4^2 .

- A. 8
- B. 12
- C. 16
- D. 20

Answer: C

Question 269

Evaluate 5^2 .

- A. 10
- B. 20
- C. 25
- D. 30

Answer: C

Question 270

Evaluate 2^5 .

- A. 16
- B. 32
- C. 25
- D. 64

Answer: B

Question 271

Evaluate 3^3 .

- A. 9
- B. 18
- C. 27
- D. 30

Answer: C

Question 272

Evaluate 4^3 .

- A. 48
- B. 64
- C. 32
- D. 16

Answer: **B**

Question 273

Evaluate 2^6 .

- A. 32
- B. 48
- C. 64
- D. 36

Answer: **C**

Question 274

Evaluate 5^3 .

- A. 75
- B. 100
- C. 125
- D. 150

Answer: **C**

Question 275

If $f(x) = 2^x$, what is $f(4)$?

- A. 8
- B. 12
- C. 16
- D. 32

Answer: **C**

Question 276

If $f(x) = 3^x$, what is $f(2)$?

- A. 6
- B. 9
- C. 12
- D. 27

Answer: B

Question 277

Evaluate 2^4 .

- A. 8
- B. 12
- C. 16
- D. 24

Answer: C

Question 278

Evaluate 10^2 .

- A. 20
- B. 100
- C. 50
- D. 10

Answer: B

Question 279

Evaluate 6^2 .

- A. 12
- B. 18
- C. 36
- D. 30

Answer: C

Question 280

If $f(x) = 2^x$, what is $f(5)$?

- A. 16
- B. 24
- C. 32
- D. 64

Answer: C

Question 281

Evaluate 7^2 .

- A. 14
- B. 21
- C. 49
- D. 42

Answer: C

Question 282

Evaluate 8^2 .

- A. 16
- B. 32
- C. 64
- D. 128

Answer: C

Question 283

Evaluate 9^2 .

- A. 18
- B. 27
- C. 81
- D. 72

Answer: C

Question 284

If $f(x) = 3^x$, what is $f(3)$?

- A. 9
- B. 18
- C. 27
- D. 81

Answer: C

Question 285

Evaluate 2^7 .

- A. 64
- B. 96

C. 128

D. 256

Answer: C

Question 286

Evaluate 4^4 .

A. 64

B. 128

C. 256

D. 512

Answer: C

Question 287

Evaluate 3^4 .

A. 27

B. 81

C. 64

D. 72

Answer: B

Question 288

Evaluate 5^4 .

A. 125

B. 225

C. 625

D. 500

Answer: C

Question 289

If $f(x) = 10^x$, what is $f(3)$?

A. 100

B. 1000

C. 30

D. 300

Answer: B

Question 290

Evaluate 2^8 .

- A. 128
- B. 256
- C. 512
- D. 64

Answer: **B**

Here are **Radical Expressions – 20 SAT-style questions**

Radical expressions often involve square roots such as:

$$\sqrt{a}$$

which represents the number whose square equals a .

Radical Expressions (Q291–Q310)

Question 291

Evaluate $\sqrt{16}$.

- A. 2
- B. 4
- C. 6
- D. 8

Answer: **B**

Question 292

Evaluate $\sqrt{25}$.

- A. 3
- B. 4
- C. 5
- D. 6

Answer: **C**

Question 293

Evaluate $\sqrt{36}$.

- A. 5
- B. 6
- C. 7
- D. 8

Answer: **B**

Question 294

Evaluate $\sqrt{49}$.

- A. 6
- B. 7
- C. 8
- D. 9

Answer: **B**

Question 295

Simplify $\sqrt{64}$.

- A. 6
- B. 7
- C. 8
- D. 9

Answer: **C**

Question 296

Evaluate $\sqrt{81}$.

- A. 7
- B. 8
- C. 9
- D. 10

Answer: **C**

Question 297

Simplify $\sqrt{100}$.

- A. 8
- B. 9
- C. 10
- D. 12

Answer: C

Question 298

Simplify $\sqrt{121}$.

- A. 9
- B. 10
- C. 11
- D. 12

Answer: C

Question 299

Simplify $\sqrt{144}$.

- A. 10
- B. 11
- C. 12
- D. 14

Answer: C

Question 300

Evaluate $\sqrt{169}$.

- A. 11
- B. 12
- C. 13
- D. 14

Answer: C

Question 301

Simplify $\sqrt{9x^2}$.

- A. $3x$
- B. $9x$
- C. x^2
- D. $3x^2$

Answer: A

Question 302

Simplify $\sqrt{4x^2}$.

- A. $2x$
- B. $4x$
- C. x^2
- D. $2x^2$

Answer: **A**

Question 303

Simplify $\sqrt{25x^2}$.

- A. $5x$
- B. $25x$
- C. x^2
- D. $5x^2$

Answer: **A**

Question 304

Simplify $\sqrt{36x^2}$.

- A. $6x$
- B. $12x$
- C. x^2
- D. $6x^2$

Answer: **A**

Question 305

Simplify $\sqrt{49x^2}$.

- A. $7x$
- B. $14x$
- C. x^2
- D. $7x^2$

Answer: **A**

Question 306

Simplify $\sqrt{64x^2}$.

- A. $8x$
- B. $16x$

- C. x^2
- D. $8x^2$

Answer: A

Question 307

Simplify $\sqrt{81x^2}$.

- A. $9x$
- B. $18x$
- C. x^2
- D. $9x^2$

Answer: A

Question 308

Simplify $\sqrt{100x^2}$.

- A. $10x$
- B. $20x$
- C. x^2
- D. $10x^2$

Answer: A

Question 309

Simplify $\sqrt{121x^2}$.

- A. $11x$
- B. $22x$
- C. x^2
- D. $11x^2$

Answer: A

Question 310

Simplify $\sqrt{144x^2}$.

- A. $12x$
- B. $24x$
- C. x^2
- D. $12x^2$

Answer: A

Here are **Rational Expressions – 20 SAT-style questions**

A rational expression is typically written as:

$$\frac{P(x)}{Q(x)}$$

where $P(x)$ and $Q(x)$ are polynomials and $Q(x) \neq 0$.

Rational Expressions (Q311–Q330)

Question 311

Simplify: $\frac{6x}{3}$

- A. $2x$
- B. $3x$
- C. $6x$
- D. x

Answer: **A**

Question 312

Simplify: $\frac{10x}{5}$

- A. $5x$
- B. $2x$
- C. $10x$
- D. x

Answer: **B**

Question 313

Simplify: $\frac{12x}{4}$

- A. $4x$
- B. $2x$
- C. $3x$
- D. $6x$

Answer: **C**

Question 314

Simplify: $\frac{15x}{3}$

- A. $3x$
- B. $5x$
- C. $6x$
- D. $15x$

Answer: **B**

Question 315

Simplify: $\frac{8x}{2}$

- A. $2x$
- B. $3x$
- C. $4x$
- D. $8x$

Answer: **C**

Question 316

Simplify: $\frac{18x}{6}$

- A. $2x$
- B. $3x$
- C. $6x$
- D. $9x$

Answer: **B**

Question 317

Simplify: $\frac{20x}{4}$

- A. $4x$
- B. $5x$
- C. $10x$
- D. $20x$

Answer: **B**

Question 318

Simplify: $\frac{14x}{7}$

- A. x
- B. $2x$
- C. $7x$
- D. $14x$

Answer: **B**

Question 319

Simplify: $\frac{9x}{3}$

- A. x
- B. $2x$
- C. $3x$
- D. $9x$

Answer: **C**

Question 320

Simplify: $\frac{16x}{8}$

- A. x
- B. $2x$
- C. $4x$
- D. $8x$

Answer: **B**

Question 321

Simplify: $\frac{x^2}{x}$

- A. x
- B. x^2
- C. 1
- D. $2x$

Answer: **A**

Question 322

Simplify: $\frac{x^3}{x}$

- A. x
- B. x^2

C. x^3

D. 1

Answer: B

Question 323

Simplify: $\frac{x^4}{x^2}$

A. x^2

B. x^3

C. x^4

D. $2x$

Answer: A

Question 324

Simplify: $\frac{5x^2}{x}$

A. $5x$

B. x^2

C. $5x^2$

D. $10x$

Answer: A

Question 325

Simplify: $\frac{8x^3}{2x}$

A. $4x^2$

B. $8x^2$

C. $4x$

D. $16x$

Answer: A

Question 326

Simplify: $\frac{12x^2}{3x}$

A. $4x$

B. $3x$

C. $6x$

D. $12x$

Answer: **A**

Question 327

Simplify: $\frac{15x^3}{5x}$

- A. $3x^2$
- B. $5x^2$
- C. $3x$
- D. $15x^2$

Answer: **A**

Question 328

Simplify: $\frac{9x^2}{3x}$

- A. $3x$
- B. x
- C. $3x^2$
- D. $9x$

Answer: **A**

Question 329

Simplify: $\frac{20x^3}{4x}$

- A. $5x^2$
- B. $4x^2$
- C. $5x$
- D. $20x^2$

Answer: **A**

Question 330

Simplify: $\frac{18x^2}{6x}$

- A. $2x$
- B. $3x$
- C. $6x$
- D. $12x$

Answer: **B**

Here are **Function Notation & Transformations – 20 SAT-style questions**

A common linear function form is:

$$f(x) = mx + b$$

where m is the slope and b is the y -intercept.

Function Notation & Transformations (Q331–Q350)

Question 331

If $f(x) = 2x + 3$, what is $f(2)$?

- A. 5
- B. 6
- C. 7
- D. 8

Answer: C

Question 332

If $f(x) = 3x + 1$, what is $f(4)$?

- A. 12
- B. 13
- C. 15
- D. 16

Answer: B

Question 333

If $f(x) = x^2$, what is $f(3)$?

- A. 6
- B. 9
- C. 12
- D. 18

Answer: B

Question 334

If $f(x) = x + 7$, what is $f(5)$?

- A. 10
- B. 11

C. 12

D. 13

Answer: C

Question 335

If $f(x) = 4x$, what is $f(6)$?

A. 20

B. 22

C. 24

D. 28

Answer: C

Question 336

If $f(x) = x - 3$, what is $f(10)$?

A. 5

B. 6

C. 7

D. 8

Answer: C

Question 337

If $f(x) = 5x + 2$, what is $f(3)$?

A. 15

B. 16

C. 17

D. 18

Answer: C

Question 338

If $f(x) = 2x^2$, what is $f(3)$?

A. 12

B. 18

C. 9

D. 6

Answer: B

Question 339

If $f(x) = x^2 + 1$, what is $f(4)$?

- A. 15
- B. 16
- C. 17
- D. 18

Answer: C

Question 340

If $f(x) = 6x - 2$, what is $f(3)$?

- A. 14
- B. 16
- C. 18
- D. 20

Answer: B

Question 341

If $f(x) = x + 5$, what is $f(x + 1)$?

- A. $x + 6$
- B. $x + 5$
- C. $x + 4$
- D. $x + 1$

Answer: A

Question 342

If $f(x) = 2x$, what is $f(x + 3)$?

- A. $2x + 6$
- B. $2x + 3$
- C. $x + 6$
- D. $2x$

Answer: A

Question 343

If $f(x) = x^2$, what is $f(x + 1)$?

- A. $x^2 + 1$
- B. $x^2 + 2x + 1$
- C. $x^2 + x + 1$
- D. $x^2 + 2$

Answer: **B**

Question 344

If $f(x) = 3x$, what is $f(x + 2)$?

- A. $3x + 6$
- B. $3x + 2$
- C. $x + 6$
- D. $3x$

Answer: **A**

Question 345

If $f(x) = x - 4$, what is $f(x + 5)$?

- A. $x + 1$
- B. $x - 1$
- C. $x + 5$
- D. $x + 9$

Answer: **A**

Question 346

If $f(x) = 2x + 1$, what is $f(x + 2)$?

- A. $2x + 5$
- B. $2x + 3$
- C. $2x + 1$
- D. $x + 5$

Answer: **A**

Question 347

If $f(x) = x^2 + 2$, what is $f(2)$?

- A. 4
- B. 5
- C. 6
- D. 8

Answer: C

Question 348

If $f(x) = 3x + 4$, what is $f(5)$?

- A. 17
- B. 18
- C. 19
- D. 20

Answer: C

Question 349

If $f(x) = x^2 - 1$, what is $f(3)$?

- A. 7
- B. 8
- C. 9
- D. 10

Answer: B

Question 350

If $f(x) = 4x + 2$, what is $f(6)$?

- A. 22
- B. 24
- C. 26
- D. 28

Answer: C