

Factor differences of squares

- 1** Which answer is the same expression as this
 $(x - 8)(x + 7)$

A $x^2 + 15x - 56$ B $x^2 - 15x + 56$

C $x^2 - 1x - 56$ D $x^2 - 56x - 56$

E $56x^2 + 15x + 22$

- 2** Find the value of this expression without using a calculator

$$250^2 - 150^2$$

A 52,000

B 40,000

C 4,000

D 8,000

E 60,000

F 64,000

- 3** What does this expression simplify to?
 $p^2 - n^2$

A $(p + n)^2$

B $(p + n)(p - n)$

C $(p - n)^2$

- 4** Which answer is the same expression as this
 $r^2 - 1r - 6$

A $(1r - 2)(r + 3)$ B $(r + 2)(6r - 3)$

C $(r - 2)(1r + 3)$ D $(6r + 2)(r - 3)$

E $(r + 2)(r - 3)$

- 5** What does this expression simplify to?
 $x^2 - 16$

A $(x + 4)^2$

B $(x - 4)^2$

C $(x + 4)(x - 4)$

- 6** What does this expression simplify to?
 $p^2 - x^2$

A $(p - x)^2$

B $(p + x)(p - x)$

C $(p + x)^2$

- 7** Which answer is the same expression as this
 $t^2 - 81$

A $(t - 18)(t + 18)$ B $(t + 18)(t - 18)$

C $(t - 9)(t - 9)$ D $(t + 9)(t - 9)$

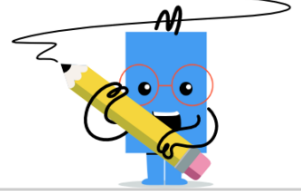
E $(t - 8)(t + 9)$

- 8** What does this expression simplify to?
 $y^2 - 4$

A $(y + 2)(y - 2)$

B $(y + 2)^2$

C $(y - 2)^2$



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What does this expression simplify to?

$$x^2 - b^2$$

A

$$(x + b)^2$$

B

$$(x + b)(x - b)$$

C

$$(x - b)^2$$

10

Which answer is the same expression as this

$$z^2 - 1z - 30$$

A

$$(z - 6)(1z + 5)$$

B

$$(1z - 6)(z + 5)$$

C

$$(z - 6)(z + 5)$$

D

$$(z + 6)(z - 5)$$

E

$$(z + 6)(z + 5)$$

11

What does this expression simplify to?

$$p^2 - 9$$

A

$$(p - 3)^2$$

B

$$(p + 3)^2$$

C

$$(p + 3)(p - 3)$$

12

What does this expression simplify to?

$$c^2 - y^2$$

A

$$(c + y)(c - y)$$

B

$$(c - y)^2$$

C

$$(c + y)^2$$