

Factor each polynomial.

1. * $2x^2 - x - 10$

2. * $x^2 + 8x + 7$

3. * $5x^2 - 16x + 3$

4. * $y^2 - 9y + 8$

5. $6x^2 - 7x - 3$

6. $y^2 - 7y - 8$

7. $4x^2 - 12x + 5$

8. $z^2 + 10z + 25$

9. Which of the following products is equivalent to the trinomial $x^2 - 5x - 24$?

(1) $(x-12)(x+2)$ (3) $(x-8)(x+3)$

(2) $(x+12)(x-2)$ (4) $(x+8)(x-3)$

10. Written in factored form, the trinomial $2x^2 + 15x + 28$ can be expressed equivalently as

(1) $(2x+7)(x+4)$ (3) $(2x+2)(x+14)$

(2) $(2x+4)(x+7)$ (4) $(2x+14)(x+2)$

R1. Factor $x^2 - 25$

R2. Factor $25 - x^2$

R3. Factor $9x^2 - 16$

R4. Factor $3x^3 - 18x$

R5. Simplify: $(3x - 1)(2x + 4)$

R6. Simplify: $(4m + 5)(4m - 5)$

1. $(x+2)(2x-5)$

2. $(x+1)(x+7)$

3. $(5x-1)(x-3)$

4. $(y-1)(y-8)$

5. $(3x+1)(2x-3)$

6. $(y+1)(y-8)$

7. $(2x-1)(2x-5)$

8. $(z+5)(z+5)$

9. (3)

10. (1)

R1. $(x+5)(x-5)$

R2. $(5+x)(5-x)$

R3. $(3x+4)(3x-4)$

R4. $3x(x^2 - 6)$

R5. $6x^2 + 10x - 4$

R6. $16m^2 - 25$