

Factor: $10x^2 + 9x + 2$

1) _____

$$ac = 20$$

2) _____

$$1 * 20$$

$$2 * 10$$

$$4 * 5$$

3) _____

$$4 + 5 = 9$$

4) _____

$$10x^2 + 4x + 5x + 2$$

5) _____

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

6) _____

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

Factor Practice (Together)

$$4x^2 + 11x + 6$$

$$3x^2 + 4x - 4$$

$$5x^2 - 6x - 8$$

$$6x^2 - 24x + 8$$

Factor (In Pairs)

1) $x^2 - 9x + 8$

2) $11z^2 + 2z - 9$

3) $2x^2(x - 6) + 3(x - 6)$

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

5) $x^3 + 4x^2 + 6x + 24$

6) $6x^3 + 8x^2 - 9x - 12$

7) $16x^8 - 20x^7$

8) $28x^2y + 36x^3y^2$

Answers: 1) $(x - 1)(x - 8)$

2) $(11z - 9)(z + 1)$

3) $(x - 6)(2x^2 + 3)$

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

5) $(x + 4)(x^2 + 6)$

6) $(4x + 3)(2x^2 - 3)$

7) $4x^7(4x - 5)$

8) $4x^2y(7 + 9xy)$