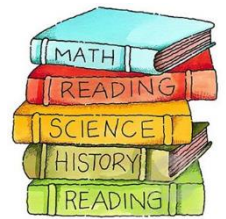


Name: key

UNIT 7 - TEST REVIEW
ARE YOU READY FOR THE TEST?



Special Products

$$(4x - 3)^2 \quad (4x - 3)(4x - 3)$$
$$16x^2 - 12x - 12x + 9$$
$$16x^2 - 24x + 9$$

Greatest Common Factor

$$\frac{-4x^3 + 12x}{-4x \quad -4x}$$
$$-4x(x^2 - 3)$$

Factor when a = 1

$$x^2 - 4x - 32$$
$$(x + 4)(x - 8)$$

Factor when a ≠ 1

$$5x^2 + 21x + 4$$
$$(5x + 1)(x + 4)$$

DOTS

$$49x^2 - 9$$
$$(7x + 3)(7x - 3)$$

DOTS with GCF

$$\frac{18x^2 - 8}{2 \quad 2}$$
$$2(9x^2 - 4)$$
$$2(3x + 2)(3x - 2)$$

ZPP

$$(x - 3)(8x - 1) = 0$$
$$x - 3 = 0 \quad 8x - 1 = 0$$
$$\boxed{x = 3} \quad \frac{8x - 1}{+1 \quad +1}$$
$$\frac{8x = 1}{8 \quad 8} \quad \boxed{x = \frac{1}{8}}$$

$$\frac{3x^2 - 21x - 54}{3 \quad 3 \quad 3} = 0$$
$$3(x^2 - 7x - 18) = 0$$
$$3(x - 9)(x + 2) = 0$$
$$\boxed{x = 9} \quad \boxed{x = -2}$$