



Name Key Per. _____
Algebra Accelerated Unit 4 Practice Test

4N

1. Simplify. Omit restrictions.

a. $\frac{(-xy)^7}{xy^7}$

$$\frac{-x^7y^7}{xy^7} = -x^6$$

b. $\frac{8a^2b - 12ab^2 + 4ab}{4ab}$

$$2a - 3b + 1$$

c. $(ab-2c)(ab+2c)$ DOTS

$$(ab)^2 - (2c)^2$$

$$a^2b^2 - 4c^2$$

d. $(5p^3-6)^2$ PST

$$(5p^3)^2 - 2(5p^3)(6) + (6)^2$$

$$25p^6 - 60p^3 + 36$$

e. $(2x-y)(x^2-4xy+3y^2)$

$$2x^3 - 8x^2y + 6xy^2 - x^2y + 4xy^2 - 3y^3$$

$$2x^3 - 9x^2y + 10xy^2 - 3y^3$$

f. $\frac{8x-20y}{4} - \frac{18x+45y}{9}$

$$(2x-5y) - (2x+5y)$$

$$2x-5y-2x-5y$$

$$-10y$$

2. Factor completely. Show steps.

a. $a^3x - 9ax^3$

$$ax(a^2 - 9x^2)$$

$$ax(a+3x)(a-3x)$$

b. $5c^2 - 40c - 100$

$$5(c^2 - 8c - 20)$$

$$5(c-10)(c+2)$$

c. $a^3 + a^2 - a - 1$

$$(a^3 + a^2) + (-a - 1)$$

$$a^2(a+1) - (a+1)$$

$$(a+1)(a^2-1)$$

$$(a+1)(a+1)(a-1)$$

d. $n^2(n^2-9) + 4(9-n^2)$

$$n^2(n^2-9) - 4(n^2-9)$$

$$(n^2-9)(n^2-4)$$

$$(n+3)(n-3)(n+2)(n-2)$$

e. $36x^2 - 84xy + 49y^2$

$$(6x-7y)^2$$

$$\frac{2ab}{2(6x)(7y)}$$

$$84xy$$

f. $10t^2 - 15t - 25$

$$5(2t^2 - 3t - 5)$$

$$5(2t-5)(t+1)$$

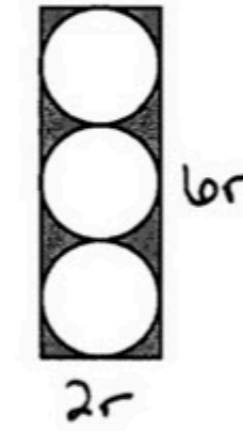
3. If r is the radius of each circle in the diagram at the right, express the area of the shaded region in factored form. Show work.

Rectangle - 3 Circles

$$(2r)(6r) - 3\pi r^2$$

$$12r^2 - 3\pi r^2$$

$$3r^2(4 - \pi)$$



4. Solve and write the solution set. Omit checks.

a. $(n+3)(2n+3) = (n+2)^2 + (n-2)^2$

$$2n^2 + 9n + 9 = (n^2 + 4n + 4) + (n^2 - 4n + 4)$$

$$2n^2 + 9n + 9 = 2n^2 + 8$$

$$9n + 9 = 8$$

$$9n = -1$$

$$n = -\frac{1}{9}$$

$$\therefore \left\{-\frac{1}{9}\right\}$$

b. $(x+2)(x-3) = 24$

$$x^2 - x - 6 = 24$$

$$x^2 - x - 30 = 0$$

$$(x-6)(x+5) = 0$$

$$x = 6 \text{ or } x = -5$$

$$\therefore \{-5, 6\}$$



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mathematics answer key

If the length is divided by 2, what must happen to the width for the area to remain the same? ... received a grade of A on the math test.

mathematics answer scanner

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