

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.  $\frac{(ab-2c)(ab+2c)}{(ab)^2 - (2c)^2}$  DOTS  
 $\frac{a^2b^2 - 4c^2}{a^2b^2 - 4c^2}$

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

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

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

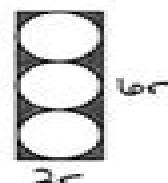
3. If  $r$  is the radius of each circle in the diagram at the right, express the area of the shaded region in factored form. Show work.

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

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

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

$$9n + 9 = 8$$

$$9n = -1$$

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

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

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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