- Algebra Accelerated
- Unit 4 Practice Test
- Simplify. Omit restrictions.

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

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

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

2a-3b-1

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

e.
$$(2x-y)(x^2-4xy+3y^2)$$
 (f. $\frac{8x-20y}{4}-\frac{18x+45y}{9}$
 $2x^3-\frac{8x^2y}{4}+\frac{6xy^2-x^2y}{2}+\frac{yxy^2-3y^2}{2}$ (2x-5y)-(2x+5y)
 $2x^3-9x^2y+10xy^2-3y^2$ 2x-5y-2x-5y

-104

2. Factor completely. Show steps.

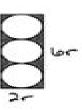
c.
$$a^3 + a^2 - a - 1$$

 $(a^3 + a^3) + (-a - 1)$
 $a^3(a + 1) - (a + 1)$
 $(a + 1)(a^2 - 1)(a - 1)$
f. $10r^2 - 15r - 25$

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

 $(2 + 3)(2 - 3)(2 - 3)$
 $(2 + 3)(2 - 3) + 4(3 - 2)$
 $(2 + 3)(2 - 3) + 4(3 - 2)$

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.



Solve and write the solution set. Omit checks.

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

b. $(x+2)(x-3) = 24$
 $2n^2+9n+9 = (n^2+9n+9) + (n^2-9n+9)$
 $2n^2+9n+9 = 3$
 $3n^2+9n+9 = 3$
 $3n^2+9 = 3$
 $3n^2+$

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

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