

Do Now:**Factor each expression**

1) $\frac{8a + 16a^2}{8a}$

$$\frac{8a}{8a}(1+2a)$$

GCF Factoring

2) $(2x(x - 3) - 1(x - 3))$

$$(2x-1)(x-3)$$

Common Binomial

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

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

Factor by Grouping

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

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Homework Answers

16: 1, 2, 4, 8, 16

40: 1, 2, 4, 5, 8, 10, 20, 40

1) $18x^3$ and $27x^2$

$9x^2$

3) $-4x^3 - 18x^2$

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

5) $4x(x + 5) - 9(x + 5)$

$(x + 5)(4x - 9)$

2) $20x^4$ and $45x^5$

$5x^4$

4) $12x^3 - 8x^2 + 28x$

$4x(3x^2 - 2x + 7)$

6) $2x(x - 3) + 5(3 - x)$

$2x(x - 3) - 5(-3 + x)$

$2x(x - 3) - 5(x - 3)$

$(x - 3)(2x - 5)$

Apr 19-8:14 AM

Quiz Topics

- Factor a Monomial
 - Find the GCF of two or more monomials
- Do Now*
- 1) • Factor a polynomial using the GCF
 - 2) • Factor out a common binomial factor
 - 3) • Factor by Grouping

$$12x^3y = 2 \cdot 2 \cdot 3 \cdot x \cdot x \cdot y$$

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