

Mid Chapter Quiz

1. Classify each polynomial according to its degree and type.

	Monomial	Binomial	Trinomial
Degree 1			
Degree 2			
Degree 3			

⌘ $-9x$	⌘ $5 - 2x^3$	⌘ $4x^3$	⌘ $-4x^2$	⌘ $x + 6$
⌘ $3x^2 + 3x^3 - 10$	⌘ $4x^2 - x$	⌘ $x - 3x^2 + 1$		

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2. Find the sum. Write your answer in standard form.

$$(6x^3 + 3x^2 + 3) + (2x^3 - 5x + 1)$$

The sum is .

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3. Find the difference. Write your answer in standard form.

$$(5x^3 - 3x + 6) - (2x^2 - 4x + 8)$$

The difference is .

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4. Find $(2x + 1)(x - 2)$ using the table of products. Write your answer in standard form.

	$2x$	1
x	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

The product is .

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5. Find $(x + 4)(x^2 + x - 2)$. Write your answer in standard form.

The product is .

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6. Identify each product.

$(x + 2y)^2$	—●—●—	
$(y + 2x)^2$	—●—●—	

$2x^2 + 4xy + 4y^2$	$2y^2 + 4xy + 4x^2$	$2x^2 + 4xy + 2y^2$
$x^2 + 4xy + 4y^2$	$y^2 + 4xy + 4x^2$	

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7. Which expression is equivalent to $(4 - 2x)(4 + 2x)$?

- $(16 - 2x)^2$
- $(16 + 2x)^2$
- $4 - 4x^2$
- $16 - 4x^2$
- $16 - 8x + 4x^2$
- $16 - 8x - 4x^2$
- $16 - 16x - 4x^2$

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8. Solve $7x^2 = 28x$.

The roots are $x = \square$ and $x = \square$.

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9. Solve $x^2 + 5 = 21$.

The roots are $x = \square$ and $x = \square$.

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10. The path of a ball kicked from the ground can be modeled by the equation $y = -\frac{1}{4}(x - 2)(x - 22)$, where x and y are measured in feet. The x -axis represents the ground. How far does the ball land from where it is kicked?

The ball lands \square feet from where it is kicked.

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