

Bellwork Alg 2A Thursday, September 8, 2016

Factor each.

1. $4x^2 - 2x - 12$

2. $c^2 - 5c - 36$

Simplify each expression.

3. $5 + |-8 + 2| =$

4. $-6 + |11| - |-2|$

Evaluate each expression for $A = -24$ $B = -6$ $C = 2$ $D = 3$

5. $-A - B(C + D)$

6. $A^2 + 2D^2$

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Answers

Factor each.

1. $4x^2 - 2x - 12$

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

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

	x	-2
$2x$	$2x^2$	$-4x$
$+3$	$+3x$	-6

2. $c^2 - 5c - 36$

$(c-9)(c+4)$

	-36
-9	4
-5	

Simplify each expression.

3. $5 + |-8 + 2| =$

$= 5 + |-6|$

$= 5 + 6$

$= 11$

4. $-6 + |11| - |-2|$

$= -6 + 11 - 2$

$= 5 - 2$

$= 3$

Evaluate each expression for $A = -24$ $B = -6$ $C = 2$ $D = 3$

5. $-A - B(C + D)$

$= -(-24) - (-6)(2+3)$

$= 24 + 6(5)$

$= 24 + 30$

$= 54$

6. $A^2 + 2D^2$

$= (-24)^2 + 2(3)^2$

$= 576 + 2(9)$

$= 576 + 18$

$= 594$