

Bellwork Hon Alg 2 Thursday, September 8, 2016

Factor each.

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

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

3. $g^2 - 49$

4. $25b^6 - 36g^8$

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

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

Handwritten work for problem 1:
 $2(2x^2 - x - 6)$
 AC method: $\begin{matrix} -12 & 3 \\ -4 & 1 \end{matrix}$ (crossed out), $\begin{matrix} x & -2 \\ +3 & -6 \end{matrix}$

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

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

Handwritten work for problem 2:
 $\begin{matrix} -36 & 4 \\ -9 & 1 \end{matrix}$ (crossed out), $\begin{matrix} -5 & 4 \\ -9 & 1 \end{matrix}$

3. $g^2 - 49$

$(g+7)(g-7) = (g \pm 7)$

4. $25b^6 - 36g^8$

$(5b^3 \pm 6g^4)$

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

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

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

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

$= 24 + 6(5)$

$= 24 + 30$

$= 54$

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

$= 576 + 2(9)$

$= 576 + 18$

$= 594$