Algebra 1 Bellwork Thursday, October 1, 2015

Simplify each.

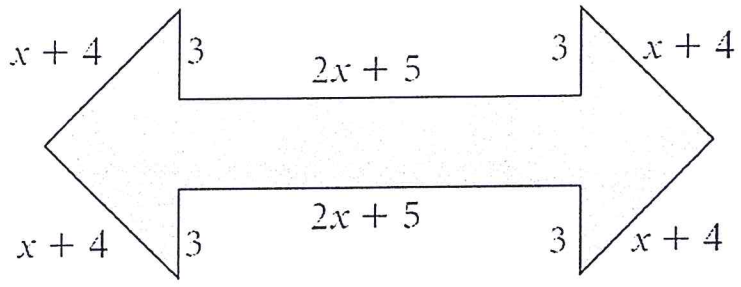
1. $6 + 2(4m - 9) - 12m - 5(3m + 7)$

2. $-\frac{5}{6}(9m^2 - 36m) + 2m^2 - 3m$

3. $-9 + 4m^2(2m - 3) + 6m - 7 - 11m^3 + m^2 + 3m^3$

4. $6g^2h + 7gh^2 - g^2h + 5hg^2 - 8gh + 6g^2h^2 - 4gh^2 + 2gh - 5h^2g$

5. Write an expression for the perimeter of the figure below. Simplify the expression.



Algebra 1 Bellwork Thursday, October 1, 2015

ANSWERS

Simplify each.

1. $6 + 2(4m - 9) - 12m - 5(3m + 7)$

$= 6 + 8m - 18 - 12m - 15m - 35$

$= -19m - 47$

2. $-\frac{5}{6}(9m^2 - 36m) + 2m^2 - 3m$

$= \frac{-15}{2}m^2 + 30m + 2m^2 - 3m$

$= -\frac{11}{2}m^2 + 27m$

3. $-9 + 4m^2(2m - 3) + 6m - 7 - 11m^3 + m^2 + 3m^3$

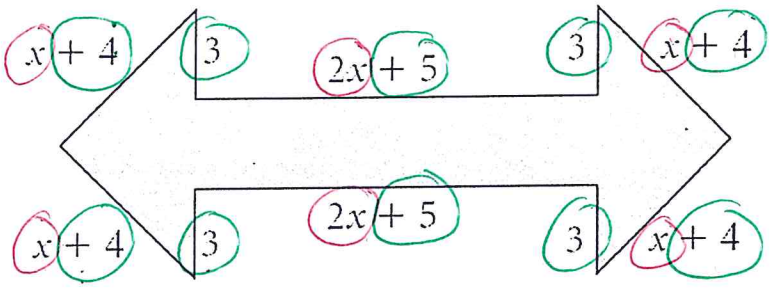
$-9 + 8m^3 - 12m^2 + 6m - 7 - 11m^3 + m^2 + 3m^3$

$= -11m^2 + 6m - 16$

4. $6g^2h + 7gh^2 - g^2h + 5hg^2 - 8gh + 6g^2h^2 - 4gh^2 + 2gh - 5h^2g$

$= 10g^2h - 2gh^2 + 6g^2h^2 - 6gh$

5. Write an expression for the perimeter of the figure below. Simplify the expression.



perimeter =

$8x + 38$

$P = (x+4) + 3 + (2x+5) + 3 + (x+4) + (x+4) + 3 + (2x+5) + 3 + (x+$