

# Real Numbers – Multiplying and Dividing 1.3



## Overview of problems

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### Example Set: A

Evaluate the following:

1.  $(-2)(7)$

6.  $-6(x^2)$

2.  $(-1)(3)(-5)$

7.  $|-2|(-2)$

3.  $10 \div (-2)$

8.  $\frac{-8}{2}$

4.  $-4^2$

9.  $\frac{|-9|}{-3}$

5.  $(-2y)^3$

10.  $3 \div \frac{-1}{2}$

### Example Set: B

Evaluate the expressions:

1.  $(-2x)(4x)(-1x)$

2.  $(-3.8)(2.7)(-1.9)^2$

3.  $(\frac{-1}{4}y)(\frac{1}{2}y) \div (\frac{-2}{3})$

4.  $\frac{(-5)(4)+10}{-2}$

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### *Example Set: C*

*Evaluate the expressions:*

1.  $3x^2 - x$  when  $x = -2$
2.  $-4x + 2x^3$  when  $x = -3$
3.  $-5(x - 8)$  when  $x = 6$
4.  $(|7 - y|)(-3)$  when  $y = 4$
5.  $\frac{2x^2 - 5x + 1}{x + y}$  when  $x = 3, y = -6$

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### Example Set: A -ANSWER KEY

Evaluate the following:

1.  $(-2)(7) = -14$

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

2.  $(-1)(3)(-5) = 15$

7.  $|-2|(-2) = -4$

3.  $10 \div (-2) = -5$

8.  $\frac{-8}{2} = -4$

4.  $-4^2 = -16$

9.  $\frac{|-9|}{-3} = -3$

5.  $(-2y)^3 = -8y^3$

10.  $3 \div \frac{-1}{2} = -6$



### Example Set: B- ANSWER KEY

Evaluate the expressions:

1.  $(-2x)(4x)(-1x) = 8x^3$

2.  $(-3.8)(2.7)(-1.9)^2 = -37.03$

3.  $(\frac{-1}{4}y)(\frac{1}{2}y) \div (\frac{-2}{3}) = \frac{3}{16}y^2$

4.  $\frac{(-5)(4)+10}{-2} = 5$

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### Example Set: C-ANSWER KEY

Evaluate the expressions:

1.  $3x^2 - x$  when  $x = -2$  **14**

2.  $-4x + 2x^3$  when  $x = -3$  **-42**

3.  $-5(x - 8)$  when  $x = 6$  **10**

4.  $(|7 - y|)(-3)$  when  $y = 4$  **-9**

5.  $\frac{2x^2 - 5x + 1}{x + y}$  when  $x = 3, y = -6$   **$= -\frac{4}{3}$**