***MPM1D - Spiral 5 Test Review***

**Solving Equations**

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| From the textbook… | | | |
| p. 230 #9ab, 11ab, 12 | p. 219 #15, 17 | p. 227 #4, 5, 6, 7, 19 | p. 233 #8 |

1. Solve for the missing dimension.

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**Analytic Geometry**

2. State the equation of a line that….

1. is parallel to and has the same   
   y-intercept as  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. is perpendicular to  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. is parallel to  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. is perpendicular to **** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. is horizontal and passes through (**–**3, 2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. is vertical and passes through (6, **–**2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. has an x-intercept of 3 and no y-intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. is parallel to and has a y-intercept of 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Rearrange the following into y = mx + b form, then graph.

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4. Graph by finding the intercepts

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5. Determine the equation of a line with slope  that passes through the point (–12, 5)   
6. Determine the equation of a line that passes through the points (–9, 7) and   
(–4, –3)

7. Solve the following linear system graphically. Verify your answer.

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|  |  |

8. Find the equation of a line that is perpendicular to  and has an x-intercept of –10  
9. Find the equation of a line that intersects the line when y = 12 and passes through (10, 26)

ANSWERS.

1. a) 21.3 cm   
   b) 8 cm

c) 13.8 cm

1. 10 in
2. a)
3. a)   
   b)
4. a) x-int = -3; y-int = -2  
   b) x-int = -3; y-int = 1
5. (–4, 5)