

Unit 6: Worksheet 1
Parallel and Perpendicular Lines

Name _____

Period _____

Finding Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$ or $\frac{\Delta y}{\Delta x}$	Parallel lines // Same slope $m_1 = \frac{2}{3}$ $m_2 = \frac{2}{3}$	Perpendicular lines \perp Opposite reciprocal slope $m_1 = \frac{2}{3}$ $m_2 = -\frac{3}{2}$	Oblique Lines Not // or \perp Intersecting at any angle other than 90°
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Determine if the lines are parallel, perpendicular, or oblique.		
1. $m_1 = -\frac{2}{7}$ & $m_2 = \frac{7}{2}$ _____	2. $m_1 = \frac{1}{4}$ & $m_2 = -\frac{1}{4}$ _____	3. $m_1 = -2$ & $m_2 = -2$ _____
4. $m_1 = -\frac{1}{7}$ & $m_2 = -7$	5. $m_1 = 4$ & $m_2 = 2$	6. $m_1 = \frac{2}{3}$ & $m_2 = -\frac{3}{2}$

8. all pairs of perpendicular lines

9. all line segments parallel to LM

10. all line segments perpendicular to \overline{OP}

11. all line segments skew to \overline{QP}

