Name _____

Line Segment (Points) - Find Perpendicular Slope (Value)

1 Find the slope of the PERPENDICULAR to segment AB

Point A: $(3, 6)$
Point B: $(6, 2)$

A $\dfrac{3}{4}$ B $\dfrac{3}{8}$ C $-\dfrac{3}{4}$ D $\dfrac{4}{3}$ E $\dfrac{1}{4}$ F $-\dfrac{3}{2}$

2 Find the slope of the PERPENDICULAR to segment AB

Point A: $(3, 10)$
Point B: $(9, 3)$

A $\dfrac{3}{5}$ B $\dfrac{9}{7}$ C $\dfrac{7}{6}$ D $\dfrac{6}{7}$ E $\dfrac{2}{7}$ F $\dfrac{3}{7}$

3 Find the slope of the PERPENDICULAR to segment AB

Point A: $(4, 7)$
Point B: $(9, 8)$

A -1 B 5 C -3 D -7 E -5 F $-\dfrac{5}{3}$

4 Find the slope of the PERPENDICULAR to segment AB

Point A: $(6, 9)$
Point B: $(10, 6)$

A $\dfrac{4}{3}$ B 2 C $\dfrac{4}{5}$ D $\dfrac{2}{3}$ E $-\dfrac{4}{3}$ F $\dfrac{3}{4}$

5 Find the slope of the PERPENDICULAR to segment AB

Point A: $(3, 6)$
Point B: $(6, 1)$

A $\dfrac{3}{7}$ B $\dfrac{1}{5}$ C $\dfrac{5}{3}$ D $-\dfrac{1}{5}$ E $\dfrac{3}{5}$ F 1

6 Find the slope of the PERPENDICULAR to segment AB

Point A: $(4, 5)$
Point B: $(7, 6)$

A $-\dfrac{1}{3}$ B $-\dfrac{3}{5}$ C 3 D -3 E 1 F -1

7 Find the slope of the PERPENDICULAR to segment AB

Point A: $(1, 3)$
Point B: $(7, 7)$

A -2 B $\dfrac{3}{2}$ C $-\dfrac{3}{4}$ D $-\dfrac{3}{2}$ E $-\dfrac{9}{4}$ F -6

8 Find the slope of the PERPENDICULAR to segment AB

Point A: $(5, 9)$
Point B: $(10, 2)$

A $\dfrac{7}{5}$ B $\dfrac{3}{7}$ C $\dfrac{5}{7}$ D $-\dfrac{5}{7}$ E $\dfrac{1}{2}$ F $\dfrac{5}{11}$