Name _____

Date _____

Find each of the following for f = <8, 0>, g = <-3, -5>, and h = <-6, 2>:

1) 4h – g

2) f + 2h

3) 3g – 5f + h

4) 2f + g – 3h

5) f – 2g – 2h

6) h – 4f + 5g

7) 4g – 3f + h

8) 6h + 5f – 10g

Find each of the following for p = <4, 0>, q = <-2, -3>, and r = <-4, 2>:

9) 2q – p

10) p + 2r

11) r – 3p + q

12) 2p + r - 3q

State whether each quantity described is a vector quantity or a scalar quantity:

13) A car driving 50 miles an hour due east

14) A gust of wind blowing 5 meters per second

15) A weight of 12.7 lbs on a scale