Practice for Vector Components and Vector Graphing.



31)Draw the resultant of D-E + 2G.

33) Draw the resultant of
$$F + G + H + B$$
.

34)Give four ways to make R on the diagram at the right.



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- 35)A person walks 8 m East, 15 m North, 6 m South, 3 m West, and then 3 m East.
 - A) Find the total x-displacement.
 - B) Find the total y-displacement.
 - C) Draw the triangle at the right.
 - D) Find the total displacement's magnitude and direction.
- 36)If $x_1 = 4$ m/s, $y_1 = 6$ m/s, $x_2 = 3.5$ m/s, $y_2 = -2$ m/s, find the total displacement's magnitude and direction (*using the same process as above*).

37)If $x_1 = 12$ m/s, $y_1 = -5$ m/s, $x_2 = -3$ m/s, $y_2 = 10$ m/s, find the total displacement's magnitude and direction

- 38)A car drives 20 m/s for 5 seconds at 35°.A) How fast did they drive in the x-direction?
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 - B) How fast did they drive in the y-direction?
 - C) How far did they drive at 35°?
 - D) How far did they drive in the x-direction?
 - E) How far did they drive in the y-direction?
 - F) Draw the triangle that shows the displacement of the car.

