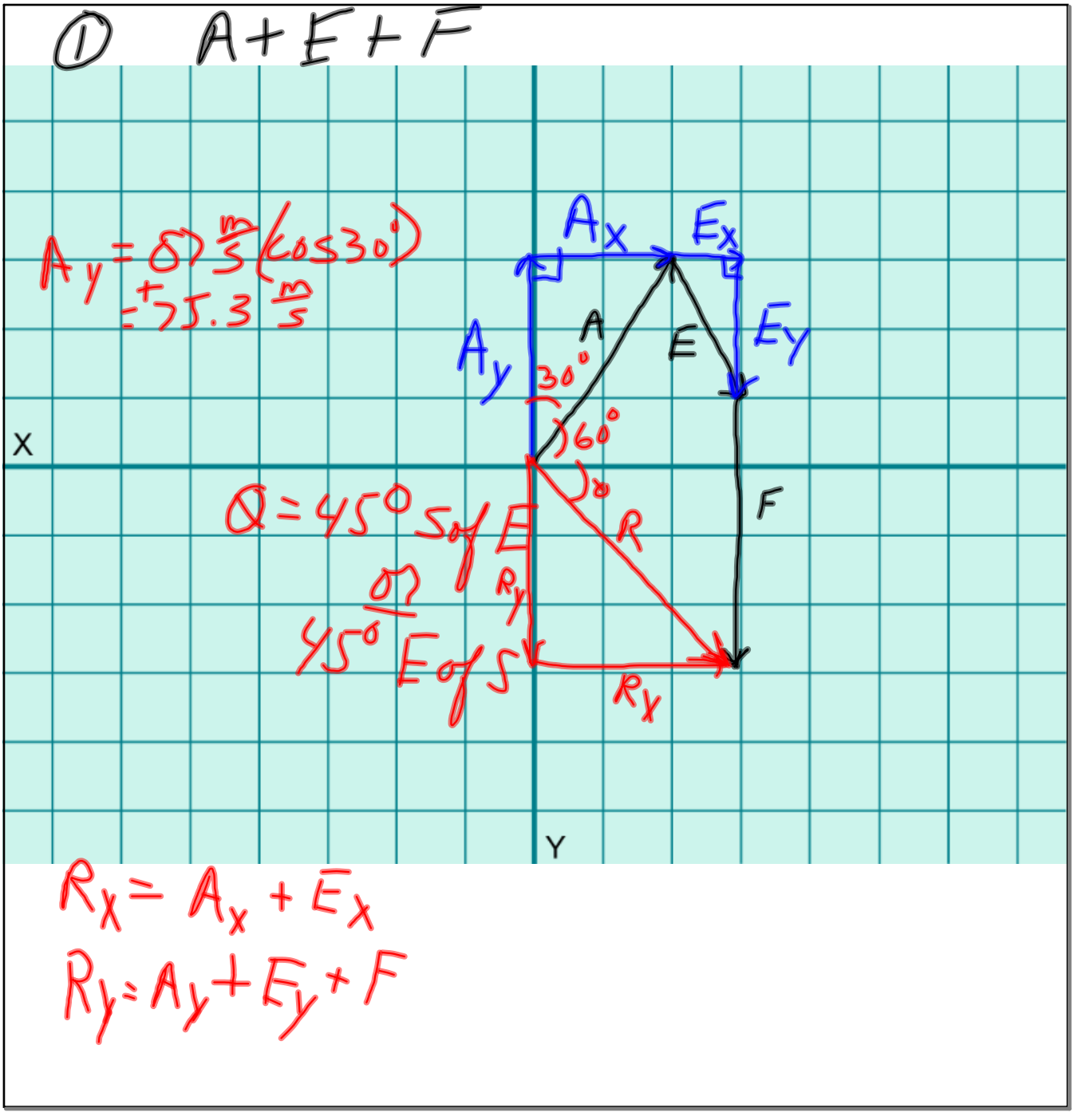
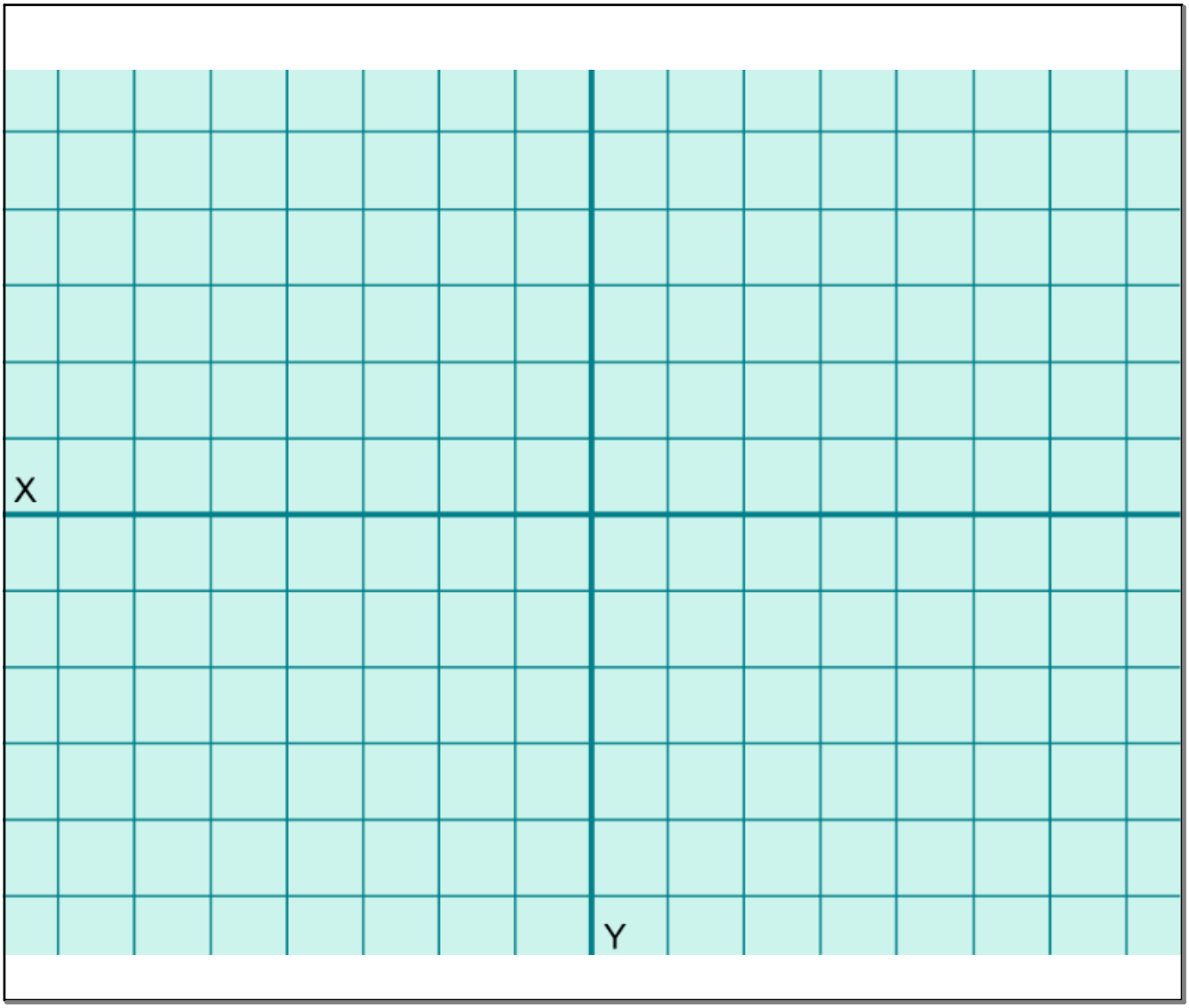
① $\bar{A} + \bar{E} + \bar{F}$



$R_x = A_x + E_x$

$R_y = A_y + E_y + F$



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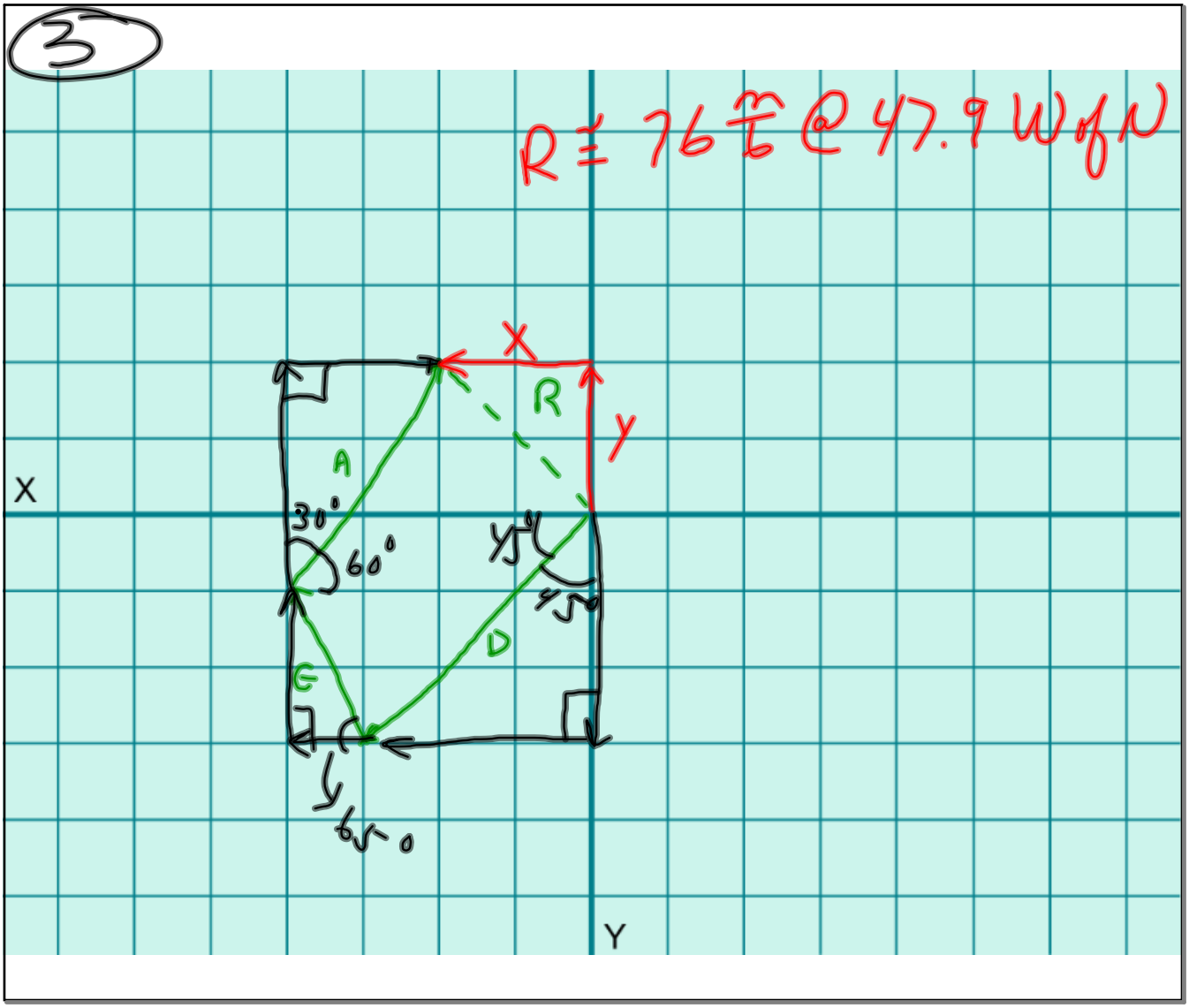
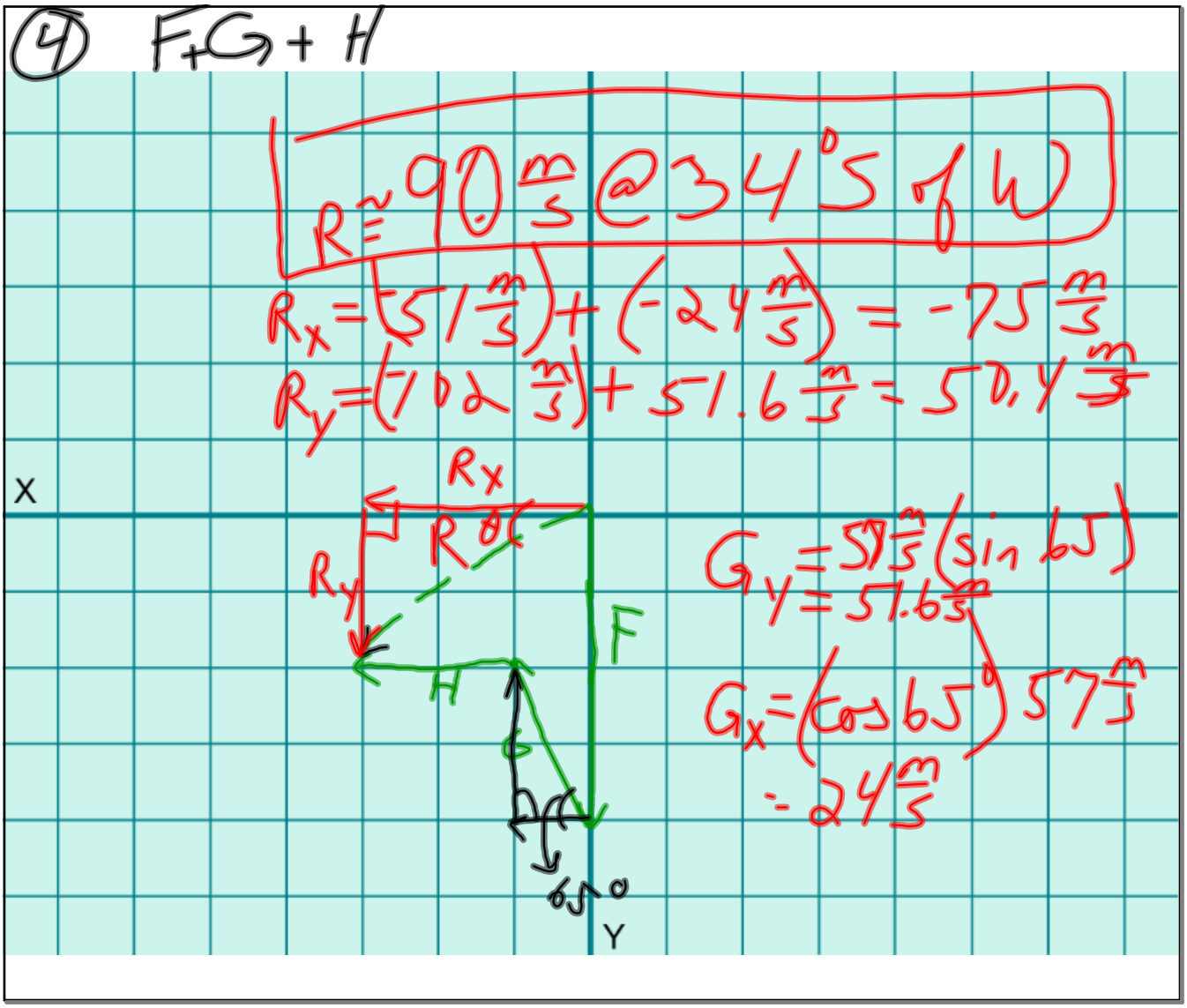
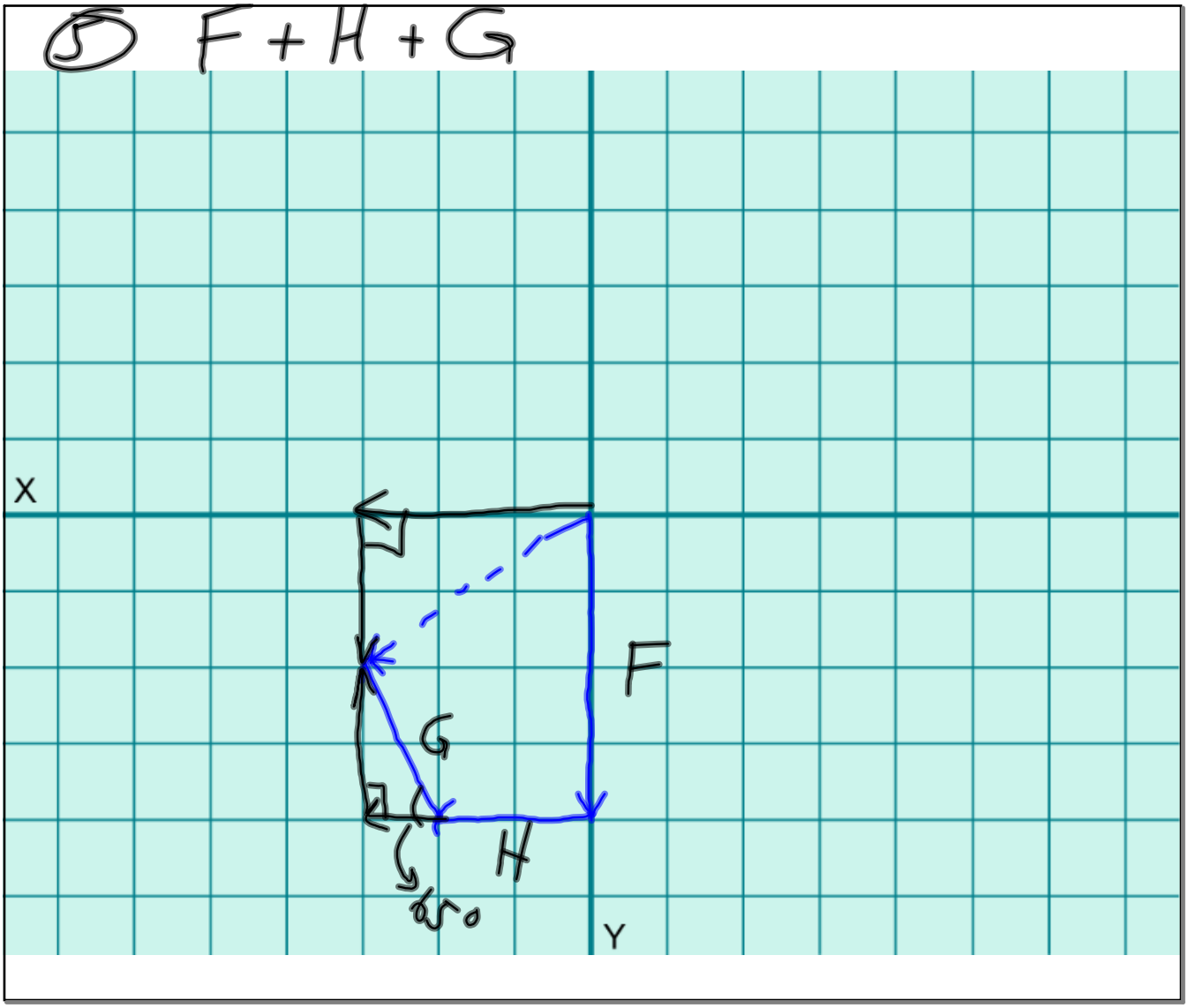

3
R = 76 m @ 47.9 W of N
X
R
Y
A
30°
60°
D
G
X
Y


④ F+G+H
R≈90 m/s @ 34° of W
Rx = (51 m/s) + (-24 m/s) = -75 m/s
Ry = (-102 m/s) + 51.6 m/s = -50.4 m/s
X
Rx
Ry
R θ
F
H
G
65°
Y
Gy = 57 m/s (sin 65)
Gy = 51.6 m/s
Gx = (cos 65) 57 m/s
-24 m/s



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$$a^2 + b^2 = c^2$$

$$\sin\theta = \frac{opp}{hyp}$$

$$\cos\theta = \frac{adj}{hyp}$$

$$\tan\theta = \frac{opp}{adj}$$

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