

$F_1 = 7.0 \text{ N}$

$F_2 = 9.0 \text{ N}$

$m = 4.0 \text{ kg}$

$F_{net} = ma$

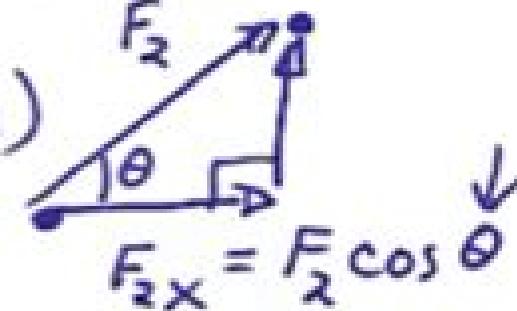
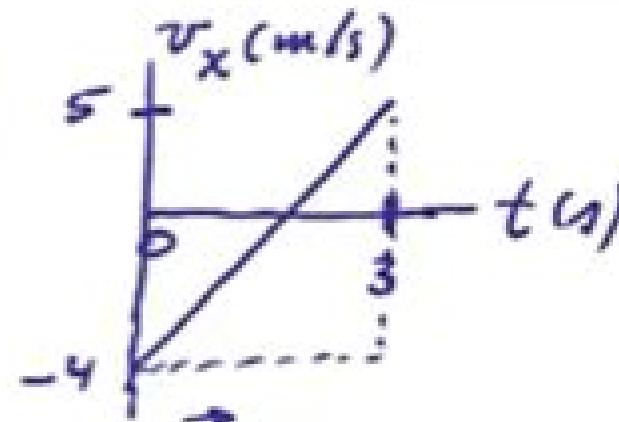
$$F_{net, x} = ma_x$$

$$7 + 9 \cos \theta = 4 \text{ (slope of } v \text{ vs. } t\text{)}$$

$$= 4 \left(\frac{5 - (-4)}{3 - 0} \right)$$

$$9 \cos \theta = 5$$

$$\theta = \cos^{-1}(5/9) = \blacksquare$$



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Mathematical Reviews, 2004 *Discussions of the Faraday Society*, 1967 **Mathematical Magazine**, 1887 **Frontiers in Mineral Physics** Stephen J. Mackwell, William A. Bassett, Paul Francis McMillan, 1989 **The American Journal of Science**, 1980

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