

(charle form ret)

$$h = u \sin \theta t - \frac{1}{2}gt^{2} \qquad h = 0$$

$$u \sin \theta t - \frac{1}{2}gt^{2} = 0$$

$$t \left[ u \sin \theta - \frac{1}{2}gt \right] = 0$$

$$\frac{1}{2}gt = u \sin \theta$$

$$t = \frac{2u \sin \theta}{g} = T$$

$$T = \frac{2u \sin \theta}{g} \qquad \sin 2\theta = 2 \sin \theta \cos \theta$$

$$R = \frac{u^{2} \sin 2\theta}{g} \qquad R = \frac{u^{2} \sin 2\theta}{g}$$

$$u = 10 \text{ m/s} \qquad \theta = 30^{\circ} \quad \text{find } R$$

$$20 = 60^{\circ} \qquad R = \frac{10^{2} \times \sin 60^{\circ}}{10} = 10 \times \sin 60^{\circ}$$

$$= 10 \times \sqrt{3} = 10 \times \frac{1.73}{2}$$

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