$$h = V_0 + t + \frac{1}{2}\alpha t^2 = 0 + \frac{1}{2}gt^2$$

$$= \frac{1}{2} \cdot 9.8 \cdot 3.0^2 = 44.1 = 44m$$

$$V = V_0 + \alpha t = 0 + gt$$

$$= 9.8 \cdot 30 = 30 - 0.6 = 29.4 = 29m/s$$

$$2 \begin{cases} h = \sqrt{2} + \frac{1}{2} at^{2} \\ \sqrt{2} + \sqrt{2} + at \end{cases}$$

$$| 19.6 = 0 + \frac{1}{2} \cdot 9.8 \cdot t^{2}$$

$$| 19.6 = 0 + \frac{1}{2} \cdot 9.8 \cdot t^{2}$$

$$| 19.6 \cdot \frac{2}{9.8} = \sqrt{4} = 2$$

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$$| 19.6 \cdot \frac{2}{9.8} = \sqrt{4} = 2$$

$$3 V = V_0 + \alpha t = 20 + 9.8 \cdot 2.0 = 39.6 + 40 \text{ m/s}$$

$$h = (00 - (V_0 t + \frac{1}{2} \alpha t^2))$$

$$= (00 - (20 \cdot 2.0 + \frac{1}{2} \cdot 9.8 \cdot 2.0^{2})$$

$$= 40.4 = 40 \text{ m}$$

- 4 最高点 0 m/s 贴直下向 9.8 m/s
- 与 記 丘 向 : 十  $V = V_0 + \alpha t = 20 - 9.8 \cdot 1.5$   $= 5.3 \text{ m/s} \quad (= 5 \text{ m/s})$   $k = V_0 t + \frac{1}{2} \alpha t^2$   $= 20 \cdot 1.5 + \frac{1}{2} (-9.4) \cdot 1.5^2$  $= 18.9 \dots = 19 \text{ m}$

6 Rote 6: +

$$40 = Vot + \frac{1}{2} \alpha t^{2}$$
 $= Vot + \frac{1}{2} (-9.8) t^{2}$ 
 $0 = Vo + \alpha t$ 
 $= Vo - 9.8 t (=) t = \frac{Vo}{9.8}$ 
 $0 = Vo \cdot \frac{Vo}{9.8} - \frac{1}{2} \cdot 9.8 \cdot \frac{Vo}{9.8} \cdot \frac{Vo}{9.8}$ 
 $0 = Vo \cdot \frac{Vo}{9.8} - \frac{1}{2} \cdot 9.8 \cdot \frac{Vo}{9.8} \cdot \frac{Vo}{9.8}$ 
 $0 = Vo \cdot 9.8 = Vo^{2} - \frac{1}{2} \cdot 9.8 \cdot \frac{Vo}{9.8} \cdot \frac{Vo}{9.8}$ 
 $0 = Vo \cdot 9.8 \cdot 2 = \frac{1}{2} \cdot 9.8 \cdot 2 = \frac{1}{2} \cdot 10.3 \cdot \frac{Vo}{9.8} \cdot \frac$ 

7 
$$0.0x = 0 \text{ m/s}^2$$
 $V_{0x} = 0.0x =$ 

$$\begin{cases} V_{0x} = (0 \cos 30^{\circ} = 10 \cdot \frac{\sqrt{3}}{2} = 8.66 \text{ m/s} \\ V_{0y} = (0 \sin 30^{\circ} = 8.0 \text{ m/s} \end{cases}$$

9 
$$\Delta x = \sqrt{9x}t + \frac{1}{2}axt^{2}$$
  
= 39.2 cos 30°. 2.0 + 0  
= 67.8 " = 68 m  
 $\Delta y = \sqrt{9y}t + \frac{1}{2}ayt^{2}$  (85 f. 6: +)  
= 39.2 sin 30°. 2.0 +  $\frac{1}{2}$  (-9.8) 2.0 = 19.6 = 20 m