Kinematics Workshoots

2
$$\frac{x}{\sqrt{x} = 28} \text{ m/s}$$
 $a_x = 0$
 $d_x = 19.6 \text{ m}$
 $d_x = 19.6 \text{ m}$

The ball was 2.4 m above the court.

$$y = 0$$
 $0 = -9.8 \, \text{m/s}^2$
 $dy = 0.025 \, \text{m}$
 $t = 0.025 \, \text{m}$

$$V_{3} = 10 \text{ sin 3}$$

$$C_{3} = 9.8$$

$$C_{4} = 0$$

$$C_{5} = 0$$

$$C_{5} = 0$$

$$C_{7} = 0$$

$$C_{$$

(a) It highest point
$$v_y = 0$$
 $v_z = 6.6 \text{ sm} 58 \text{ m/s}$
 $v_z = 6.6 \text{ sm} 58 \text{ m/s}$
 $v_z = 0$
 $v_z = 0$

$$4^{2} = 4^{2} + 2ad$$

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$$2a = (6.6 + 3.8)$$

$$2(-9.8)$$

d= 1.598

The Stateboorder in 1,2+1.598 = 2,8m above the ground.

$$d = vit + \frac{1}{2}s^{2}$$

$$d = (6.6 \cos 58)(.57i)$$

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$$d = 0.571s$$

V= 6.65 58 %

a = -9.8 m/s =

Vf = 0 (at highest point)

$$V: -0$$

$$C = -9.8 \text{ m/s}^2$$

$$d = -2 \text{ m}$$

$$t = -2 \text{ m}$$

$$x = -9.8 \, \text{m/s}$$
 $d = ?$

V= V 5m 30 Vi - Ves 30 a= -9,8 1= 183 d: Vit tiet Od= vit+jat t= d = 183 V: V cos 30 \ Vit = {at equal t= -2/2 = -2/5/n 30 -9.8 183 2 v s n 30 v co s 30 9.8 183(9.8) = 2 5 2 5 m 30 cos 30 V= \[\langle \frac{183(9.8)}{251\, 39(0)\frac{39}{39}} \right\]

V= 45.5 m/s.

Note: An extremely fast base bull p.7ch = ~ 41 m/s.

(1)
$$\frac{x}{v_1^2 + \frac{1}{2}\cos 60}$$
 m/s $v_2^2 + \frac{7}{2}\sin 60$ m/s $v_3^2 + \frac{1}{2}\cos 60$ $v_4^2 + \frac{1}{2}\cos 60$ $v_5^2 + \frac{1}{2}\cos 60$ $v_$

Tomato

$$t = -2vi = \frac{2(11)}{-9.8} = 2.24s$$

(4)

(6)
$$V = |200^2 + 50^2| = 206 \text{ m/s}$$

$$V = |200^2 + 50^2| = 206 \text{ m/s}$$

$$Q = |200| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4| = |4$$

(13)
$$V = \int 10^2 + 5^2 = 11.18 \text{ m/s}.$$
 $d = V:t + det^2$
 $t = \frac{1}{V} = \frac{1600}{11.18} = 1435 = 2.4 \text{ minutes}$

(3)
$$\frac{30 \, \text{km/k}}{V = 36 \, \text{km/k}}$$
 $\frac{d}{d} = V^{\frac{1}{2}} = 0,33 \, \text{hours} = 20 \, \text{minutes}$
 $\frac{d}{d} = \frac{\sqrt{2}}{36} = 0,33 \, \text{hours} = 20 \, \text{minutes}$

$$2.8k_{\odot}$$
 33° $2.8k_{\odot}$ $33 = \frac{\times}{2.8}$ $\times = 2.8 + 1.8 +$

$$38H^{5} \left(\frac{38}{245m/s} \right) = 8.80 \text{ North of}$$

$$245m/s = 4.80 \text{ North of}$$

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". The plane should head 8.8° South of West