Algebra 2 THURS. 3-7-13 CLASS NOTES

4/2010 (52) Circle with center $(4, -2)$ and $r = 3$?

(F) $(x+4)^2 + (y-2)^2 = 3$

(G) $(x-4)^2 + (y+2)^2 = 3$

(H) $(x+4)^2 + (y+2)^2 = 9$

(I) $(x+4)^2 + (y-2)^2 = 9$

(K) $(x-4)^2 + (y+2)^2 = 9$

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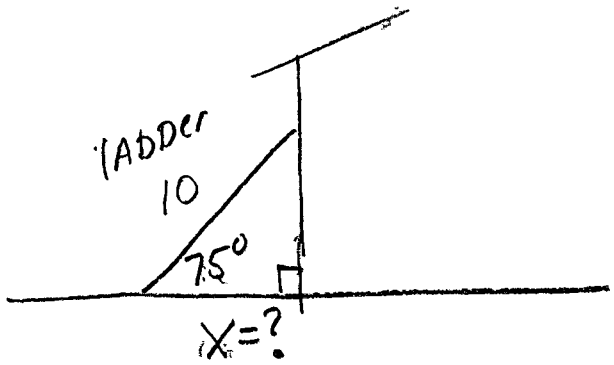
(49) Geometric Sequence $4, 10, 25 \ldots$ Next term?

62.5

(45)



(A) $10 \sin 75^\circ$ (B) $10 \cos 75^\circ$

(C) $10 \tan 75^\circ$ (D) $\frac{10}{\cos 75^\circ}$

(E) $\frac{10}{\tan 75^\circ}$

$$\cos 75 = \frac{X}{10}$$

$$10 \cos 75^\circ = X$$

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(44) $(1, -6)$ = Midpoint

$(9, -13)$, (a, b) are Endpoints

$(a, b) = ?$

$\frac{9+a}{2} = 1$

$9 + a = 2$

$a = -7$

$\frac{-13+b}{2} = -6$

$-13 + b = -12$

$b = 1$

(33) $-5|-8+9| = ?$

-5

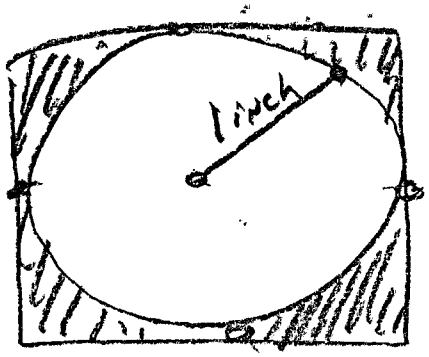
(32) $r = 4$ ft, perimeter of circle? (nearest whole number)

(F) 8 (G) 13 (H) 25 (J) 50
(K) 200

$C = 2\pi r = 8\pi \approx 3.14 \times 8$

25.12

(27)



Circle inscribed in square
Area of shaded region?

(A) π (B) $8-\pi$ (C) $4-\pi$

(D) $2-\pi$ (E) $1-\pi$

$\text{Area}_{\square} = 2^2 = 4$

$A_{\odot} = \pi(1)^2 = \pi$

$\therefore A_{SHADE} = \boxed{4-\pi}$

(25) $\frac{6!}{3!\,2!} = ?$

$\frac{6 \cdot 5 \cdot \cancel{4}^{2}}{\cancel{2} \cdot 1} = \boxed{60}$

(21) $h(x) = 4x^2 - 3x \quad h(-3) = ?$

$h(-3) = 4(-3)^2 - 3(-3) = \boxed{45}$

(14) Factor $x^2 - 6x + 8$

sum $= -6$

prod $= 8$

$-2 \quad -4$

$\boxed{(x-2)(x-4)}$

(11) $5 + 2x = 19 \quad 3x = ?$

$2x = 14$

$x = 7$ $\boxed{3(7) = 21}$

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(5) COAT $\Rightarrow$ \$80

DISCOUNTED $\Rightarrow$ \$60

PERCENT DISCOUNT $\Rightarrow$?

$\frac{1}{4} \Rightarrow \boxed{25\%}$