Geometry Tues. 3-5-13 Class Notes

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⑥ $|6-4| - |3-7| = ?$

$2 - 4 = \boxed{-2}$

4/12 ⑦ Bought pair of shoes, original price = $70. At 20% discount and 6% sales tax (on discounted price), final cost of shoes?

56 = discount price.

.06

3.36

$\boxed{\$59.36}$

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⑧ $x^2y^3 - xy^2 + x$ $x = -3$, $y = 2$

$(-3)^2(2)^3 - (-3)(2)^2 + (-3)$

$9 \cdot 8 + (-12) - 3$

$72 + 12 - 3 = \boxed{81}$

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⑨ Toy car, constant rate of 11 inches every 5 sec. How many feet in 2 minutes.

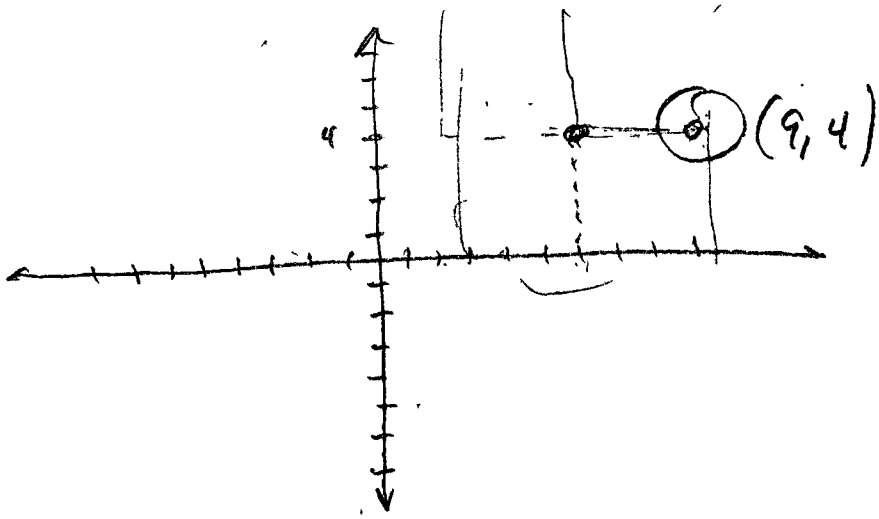
$132 \frac{in}{min} \cdot 2 = \frac{264 \frac{in}{min}}{12} = \boxed{22 \frac{ft}{2 min}}$

(11) Square, sides = 3 cm.

One vertex at (6, 4) on square grid marked in cm. Which point could be another vertex?

(A) (9, 4) (B) (6, 3) (C) (4, 5)

(D) (1, −5) (E) (−3, 4)



ADJ

(A)

TIP: 3, 4, 5

5, 12, 13

8, 15, 17

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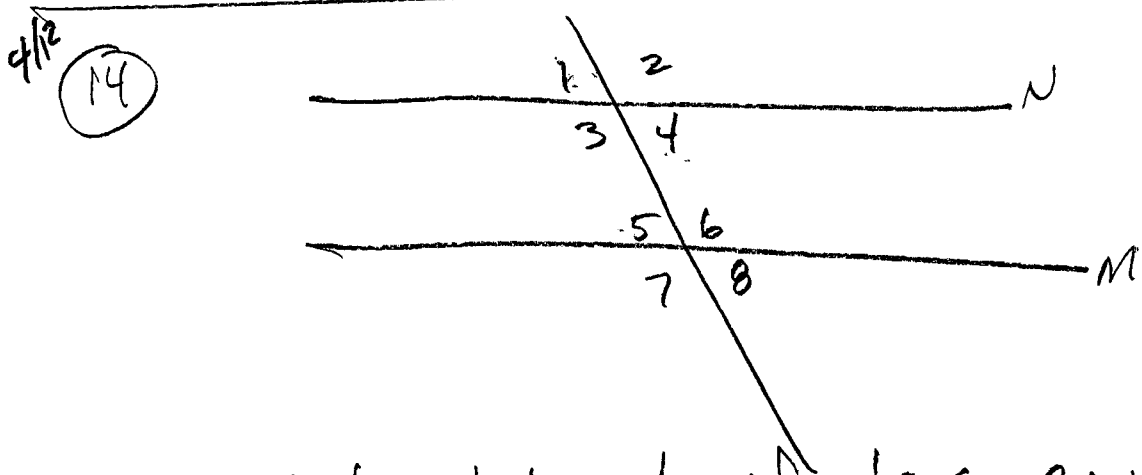
(13) $(1, 9), (7, -3)$ Midpoint

$M(4, 3)$

$M\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

4/12 (14)



Which statement, if <u>true</u> CANNOT be used to prove lines m, n, are //

(F) $\angle 1 \cong \angle 5$ (G) $\angle 1 \cong \angle 7$

(H) $\angle 1 \cong \angle 8$ (I) $\angle 2 \cong \angle 7$

(K) $\angle 4 \cong \angle 5$

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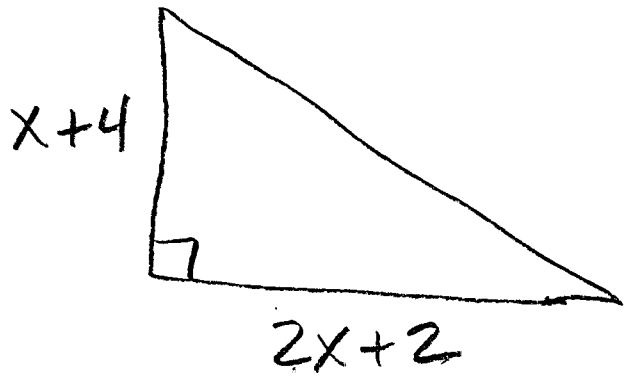
(15)



Area?

(A) x^2+4 (B) x^2+8

(C) x^2+5x+4 (D) $2x^2+8$

(E) $8x^2$

$A = \frac{1}{2}bh = \frac{1}{2}(2x+2)(x+4)$

$(x+1)(x+4)$

x^2+5x+4

4/12 (16) $f(x) = x^2 - x + 1$ $f(-3) = ?$

$f(-3) = (-3)^2 - (-3) + 1$

$= 9 + 3 + 1 = \boxed{13}$

4/12 (25) Which could be Right △

(A) 1, 1, 1

(B) 2, 3, 5

(C) 3, 4; 7

(D) 4, 9, 13

(E) 6, 8, 10

4/12 (26) $2x + 3y - 1 = 0$ slope = ?

$y = mx + b$

$\frac{3y}{3} = \frac{-2x + 1}{3}$

$y = -\frac{2}{3}x + \frac{1}{3}$