

Geometry

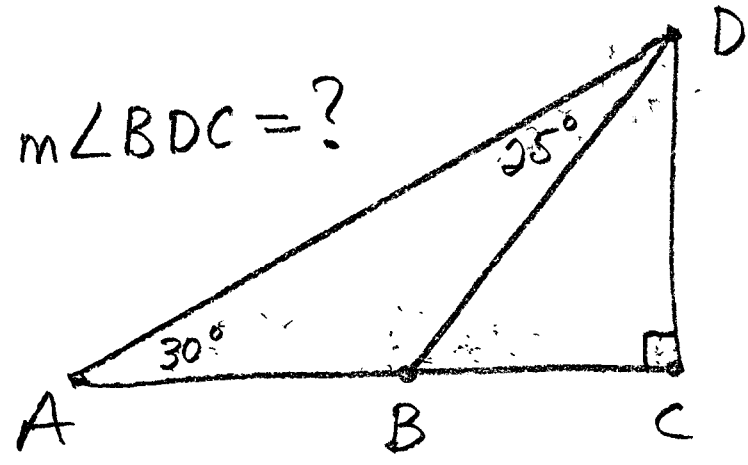
Algebra I

Thurs.
3-7-12

CLASS
NOTES

12/11

(11) $m\angle BDC = ?$



$$m\angle ABD = 125^\circ$$

$$\therefore m\angle DBC = 55^\circ$$

$$\therefore m\angle BDC$$

$$= 180 - 145 = 35^\circ$$

(12) $2x + 9y = -18$. SLOPE OF LINE?

$$y = mx + b$$

$$\frac{9y}{9} = \frac{-2x - 18}{9}$$

$$y = -\frac{2}{9}x - 2$$

↑
m

↑
(0, -2)

ⓑ The product of 3.78 and which of the following powers of 10 is 0.0000378?

- Ⓐ 10^{-2} Ⓑ 10^{-4} Ⓒ 10^{-5}
- Ⓓ 10^{-7} Ⓔ 10^{-8}

ZER $1 = \frac{4^3}{4^3} = 4^{3-3} = 4^0$ $a^0 = 1$
 $1 = \frac{4^9}{4^9} = 4^{9-9} = 4^0$ EXCEPT $0^0 = 0$

$$1 \leq a < 10 \quad a \times 10^N$$

3.78×10^{-7}	
Scientific NOTATION	

$00.0.0.0.0.378.00000000$
 $378 = 37.8 \times 10^1$
 $378 = 3.78 \times 10^2$

⑭ a, x, y are positive integers.

Which is $= X^a y^a$

Ⓕ $(xy)^a$ Ⓖ $(xy)^{2a}$

Ⓗ $(x+y)^a$ Ⓙ $(x+y)^{2a}$

Ⓚ $x(y^a)$

⑮ Which is a factor of

$$x^2 - x - 12?$$

Ⓐ $x-4$ Ⓑ $x-3$ Ⓒ $x+2$

Ⓓ $x+4$ Ⓔ $x+6$

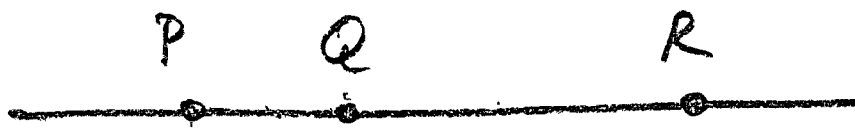
$$\text{Sum} = -1$$

$$\text{prod} = -12$$

$$3-4$$

$$(x+3)(x-4) = 0$$

- ⑩ RATIO OF \overline{PQ} TO \overline{QR} IS 3:8
 WHAT IS RATIO OF \overline{PQ} TO \overline{PR} ?



- Ⓔ 3:5 Ⓖ 3:11 Ⓗ 8:3
 Ⓙ 11:3 Ⓚ CANNOT BE DETERMINED

Ⓖ 3:11

- ⑰ Which function satisfies
 $f(5) = 12$?

Ⓐ $f(x) = x^2 - 13$

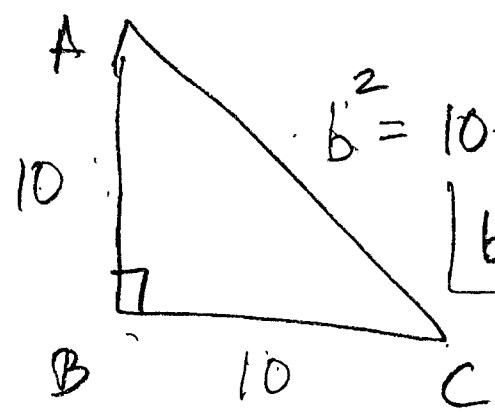
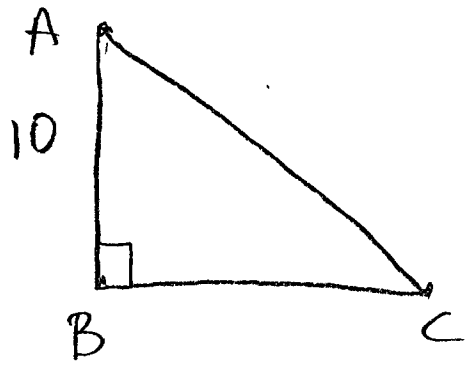
Ⓑ $f(x) = x^2 + 13$

Ⓒ $f(x) = x - 7$

Ⓓ $f(x) = 5x + 12$

Ⓔ $f(x) = 12x + 5$

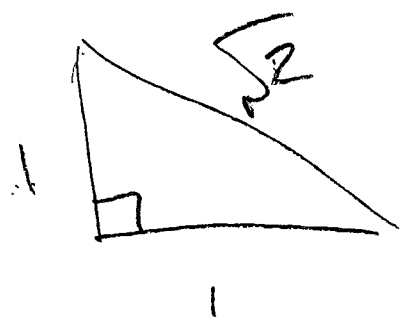
⑩ Isosceles Right Δ
 $AB = 10, AC = ?$



$$b^2 = 10^2 + 10^2$$

$$b = \sqrt{200}$$

$$b = 10\sqrt{2} = 10\sqrt{2}$$



① Put in $y = mx + b$ form

$$3x + y + 4 = 14 + 2x$$

$$y = -x + 10$$

② Paint, Area = 2650 ft^2

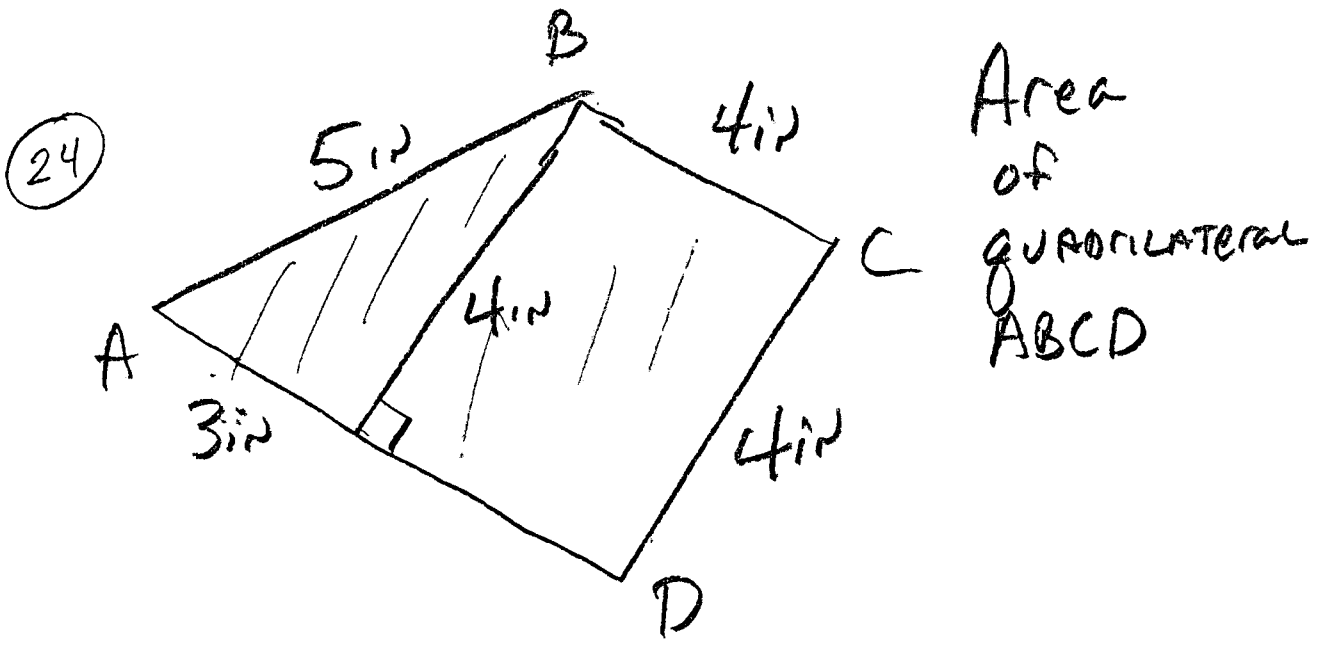
1 gal } cover 400 sq. ft.
CAN }

Minimum # of cans?

For 2 coats of paint.

$$\frac{2 \cdot 2650}{400} = \frac{5.3}{1} = 5.3$$

\therefore 14 cans



$$A_{\square} = 4^2 = 16$$

$$A_{\Delta} = \frac{1}{2}(3 \cdot 4) = 6$$

22 in^2

$$\textcircled{\text{Ex}} \quad \underline{4x} - 8y + 6 + 3x - 2y + 12 + \underline{25x} = 7y$$

$$y = mx + b$$

$$\begin{array}{r} 32x - 10y + 18 = 7y \\ + 10y \qquad \qquad \qquad + 10y \end{array}$$

$$\frac{32x + 18}{17} = \frac{17y}{17}$$

$$y = \frac{32}{17}x + \frac{18}{17}$$

\uparrow
 \uparrow
 m
 b

(3x)

$$\begin{array}{r} 5x - 2y = -8 \\ -5x \qquad -5x \end{array}$$

$$\frac{-2y}{-2} = \frac{(-5x)(-8)}{-2}$$

$$y = \frac{5}{2}x + 4$$

(0, 4)
x, b

