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# PHYSTECH.INTERNATIONAL

## 11

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1.

$$\begin{cases} |4y - 3x + 12| \leq 12, \\ (|x| - 4)^2 + (|y| - 3)^2 \leq 1 \end{cases}$$

2.

$$\sqrt{2 + \sqrt{6} - (6\sqrt{2} - 2\sqrt{3})\cos x} = 2\cos x - \sqrt{2}.$$

3.

$$\log_{\frac{3x-6}{3x+5}}(3x-9)^{10} \geq -10\log_{\frac{3x+5}{3x-6}}(3x+6).$$

4.

2R.

7:21:27 ( ).

5.

$$g(x) = \sin^8 x + 8\cos^8 x.$$

6.

9, 30 ; 2376 ?

7.

5, K, L M OKL 12, O. KLM  
30. KML.

8.

$$2x^3 - 7x^2 + 7x + p = 0$$

p

1.

$$\begin{cases} |3y + 5x - 15| \leq 15, \\ (|x| - 3)^2 + (|y| - 5)^2 \leq 1 \end{cases}$$

2.

$$\sqrt{3 + 4\sqrt{6} - (16\sqrt{3} - 8\sqrt{2})\sin x} = 4 \sin x - \sqrt{3}.$$

3.

$$\log_{\frac{2x+4}{2x-1}}(x+7)^8 \geq -8 \log_{\frac{2x-1}{2x+4}}(2-x).$$

4.

$2R$ .

12:15:5 ( ).

5.

$$g(x) = 27 \sin^8 x + 8 \cos^8 x.$$

6.

4, 30 ; 2808 ?

7.

$K, L, M$   $O$ .  
 $5\sqrt{2}$ ,  $OKL$  7,  
 $KLM$  50.  $KML$ .

8.

$$x^3 + 7x^2 + 14x - p = 0$$

$p$