

Angle between a line and x -axis

Task1. Calculate the angle α between the given line and the x -axis.

1. $y = -x + 23$

2. $y = \frac{\sqrt{3}}{3}x + 23$

3. $y = -\sqrt{3}x + \sqrt{2}$

4. $y = x - \frac{\sqrt{3}}{3}$

5. $y = 1 - \frac{\sqrt{3}}{3}$

6. $y = 5,4 + x$

7. $y = 7 - x$

8. $y = \frac{2+x\sqrt{6}}{\sqrt{2}}$

Task 2. Calculate the angle γ between the given lines.

(a) $y = 5$ and $y = x$

(b) $y = x - \frac{\sqrt{3}}{3}$ and $y = -\sqrt{3}x + \sqrt{2}$