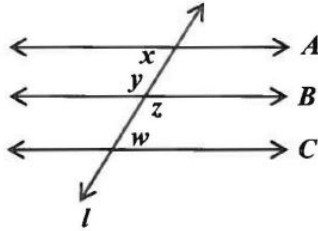


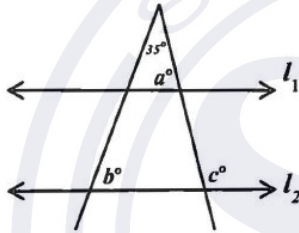
SATPREP

Assignment : Lines and Angles

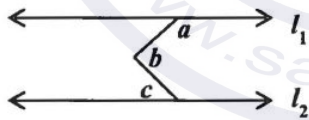
Easy



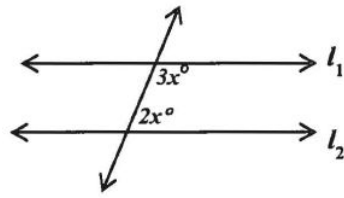
1. In the figure above, lines A , B , and C are parallel to one another. If $x = 65^\circ$, what is the value of w , in degrees?



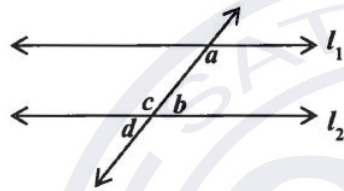
2. In the figure above, if $l_1 \parallel l_2$ and $c = 110$, what is the value of b in degrees?
- a) 70
 - b) 75
 - c) 80
 - d) 85



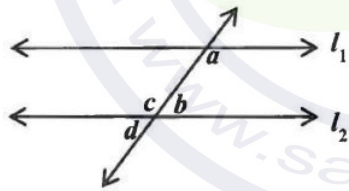
3. In the figure above, $l_1 \parallel l_2$, $a = 130^\circ$, and $c = 40^\circ$. What is the value of b ?
- a) 50°
 - b) 60°
 - c) 70°
 - d) 90°



4. In the figure above $l_1 \parallel l_2$, what is the value of x ?
- 36
 - 40
 - 45
 - 54

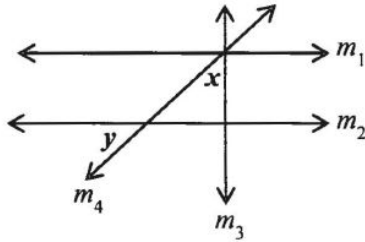


5. If $l_1 \parallel l_2$ in the figure above, what is the value of $\frac{1}{2}(b + a) - (c + d)$?
- -90°
 - 0°
 - -120°
 - 90°

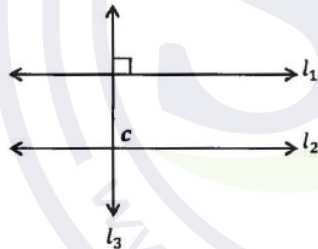


6. In the figure above, $l_1 \parallel l_2$. If angle a is 130° , what is the value of d ?
- 80°
 - 75°
 - 50°
 - 45°

Medium

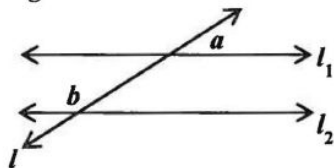


7. In the figure above, if m_1 is parallel to m_2 and m_3 is perpendicular to m_1 , what is the sum of x and y , in degrees?
- a) 180°
 - b) 120°
 - c) 100°
 - d) 90°

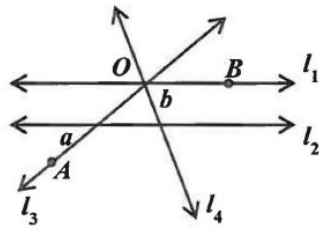


8. In the figure above, $l_1 \parallel l_2$ and $l_3 \perp l_1$. Which of the following must be true?
- a) $c < 90^\circ$
 - b) $c > 90^\circ$
 - c) $c = 90^\circ$
 - d) $l_1 \perp l_2$

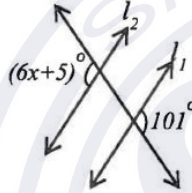
9. In the figure below, $l_1 \parallel l_2$ and $b = 2a + 6$. What is the value of a , in degrees?



Note: Figure not drawn to scale.

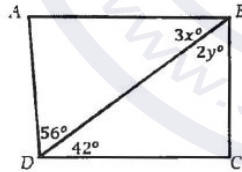


10. In the figure above, $l_1 \parallel l_2$ and l_4 bisects $\angle AOB$. If $3a = 2b$, what is the value of b , in degrees?



11. In the figure above, $l_1 \parallel l_2$. What is the value of x ?
- 15
 - 16
 - 17
 - 18

12. In the figure below, $\overline{AB} \parallel \overline{CD}$ and $\overline{CD} \perp \overline{BC}$. What is the value of $x + y$?



- 21
- 34
- 36
- 38