5. A card is drawn at random from a well-shuffled deck of 52 playing cards. The probability of getting an ace of spade is : **1**

(a) $\frac{1}{13}$ (b) $\frac{3}{52}$

(c) $\frac{1}{26}$ (d) $\frac{1}{52}$

6. The discriminant of the quadratic equation $2x^2 + x - 1 = 0$ is : **1**

(a) -9 (b) -7

(c) 9 (d) 7

7. The distance between the points $\left(\frac{-5}{2}, 7\right)$ and $\left(\frac{-1}{2}, 7\right)$ is : **1**

(a) 3 (b) 2

(c) 4 (d) 9

8. The volume of a cone of radius 'r' and height '3r' is : **1**

(a) $\frac{1}{3}\pi r^3$ (b) $3\pi r^3$

(c) $9\pi r^3$ (d) πr^3

3. The seventh term of an A.P. whose first term is 28 and common difference -4, is

(a) 0 (b) 4

(c) 52 (d) 56

4. The prime factorisation of 432 is :

(a) $2^3 \times 3^4$ (b) $2^4 \times 3^3$

(c) $2^3 \times 3^3$ (d) $2^4 \times 3^4$

(a) Solve for x and y : $x + y = 6$, $2x - 3y = 4$. **2**

OR

(b) Find out whether the following pair of linear equations are consistent or inconsistent :

$5x - 3y = 11, \quad -10x + 6y = 22$