

14. Find the coefficient x^2 in the binomial expansion of $\left(x + \frac{2}{x^2}\right)^5$
- A. 10
B. 40
C. 32
D. 80
15. Given that $P = \{x : x \text{ is a multiple of } 5\}$,
 $Q = \{x : x \text{ is a multiple of } 3\}$ and
 $R = \{x : x \text{ is an odd number}\}$ are subsets of
 $\mu = \{x : 20 \leq x \leq 35\}$, find $(P \cup Q) \cap R$.
- A. $\{20, 21, 25, 30, 33\}$
 B. $\{21, 25, 27, 33, 35\}$
 C. $\{20, 21, 25, 27, 33, 35\}$
 D. $\{21, 25, 27, 30, 33, 35\}$
16. A particle moving with a velocity of 5 ms^{-1} accelerates at 2 ms^{-2} . Find the distance it covers in 4 seconds
- A. 16 m
B. 26 m
C. 36 m
D. 46 m
17. If $U_n = kn^2 + pn$, $U_1 = -1$, $U_5 = 15$, find the values of k and p .
- A. $k = -1, p = 2$
 B. $k = -1, p = -2$
 C. $k = 1, p = -2$
 D. $k = 1, p = 2$
18. In how many ways can six persons be paired?
- A. 5
B. 10
C. 15
D. 25
19. Solve: $3^{2x-2} - 28(3^{x-2}) + 3 = 0$.
- A. $x = -2$, or $x = 1$
 B. $x = 0$, or $x = -3$
 C. $x = 2$, or $x = 1$
 D. $x = 0$, or $x = 3$
20. Given that $P = (-4, -5)$ and $Q = (2, 3)$, express \overline{PQ} in the form (k, θ) , where k is the magnitude and θ the bearing.
- A. (10 units, 063°)
 B. (9 units, 049°)
 C. (10 units, 037°)
 D. (9 units, 027°)
21. If $\overline{PQ} = 2i + 5j$ and $\overline{RQ} = -i - 7j$, find \overline{PR}
- A. $-3i + 12j$
 B. $-3i - 12j$
 C. $-i + 12j$
 D. $i - 12j$

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