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## Answers

1. (c)  $-\frac{7}{2}$
2. (b) Sridharacharya
3. (d) 0, 20
4. (d) four real roots
5. (c)  $\frac{3}{16}$
6. (c) at most two real roots

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7. Yes. Example  $x^2 - 2$
8.  $x = -a, -b$
9.  $x = a + b, x = -(a + b)$
10. No real roots.
11. 5 years, 27 years.
12. 576.