

Calculus — Problem Set 19

2. 3

4. $2x + 1$

6. 4

8. a) $\pm 1, \pm 3, \pm 5, \pm 15$
 b) Yes, 3 is a root

10. 14

12. undefined

14. $x = \frac{5 - 3 \ln 13}{2 \ln 13 + 1}$

16. $x = \frac{\pi}{4}, \frac{5\pi}{4}$

18. $\{ \varepsilon \in \mathbb{R} \mid 4 - \varepsilon < x < 4 + \varepsilon \}$

20. $(-2.4142, -1.1718)$
 $(0.4142, -6.8284)$
 $(2, -3)$

22. ≈ 0.8776

24.

$$s = \frac{6}{\sqrt{2}}$$

$$= 3\sqrt{2}$$

$$\approx 4.2426$$