

2016

5. $y = \frac{1}{4}(x + \ln 4) + \frac{1}{4}$

6. a) $-\frac{1}{\pi^2}$ b) π

7. $k = 2\sqrt{e}$

8. $4/\pi - 1$ 10. $2(2^{3/2} - 1)$

11. $33x + 10y + 4z = 190$

12. $4\sqrt{2}$ 13. $15\pi/2$ 14. $\pi/3(2 - \sqrt{2})$

15. $\frac{x-1}{8} = \frac{y+2}{4} = \frac{z-1}{-1}$

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3. $y = -x + 6$ 6. a) 0 b) 1

7. $(1+2x)^2 = 25 + 20(x-2) + 4(x-2)^2$

8. $1/2$ 9. 2π 11. $x + 2y + 4z = 35$

12. $(7, -4, 3)$ 13. $\pi/4$

14. $8\pi/3$ 15. a) 2 b) 2