

GATEWAY TEST Answers

Algebra—Tests 1A, 1B, 1C & 1D

Test 1A

1. $\frac{3x-2}{\sqrt{x-1}}$ 2. $\frac{1}{y(y-h)}$
3. $x^2 + \frac{4}{\sqrt{3}}x^{5/2} + \frac{4}{3}$ 4. $\frac{1 \pm \sqrt{21}}{2}$
5. -8 6. $5x - 2y + 17 = 0$ 7. $\frac{1-x}{x-1}$
8. $(x+1)^2 + (y-3)^2 = \frac{9}{2}$
center: $(-1, 3)$
radius: $\frac{3}{\sqrt{2}}$
9. $\frac{2}{3}$ 10. $[-\frac{1}{2}, \infty)$

Test 1B

1. $\frac{3(3x+5)}{\sqrt{2x+5}}$ 2. $\frac{-3}{2x(x+h)}$
3. $x^5 + 3\sqrt{2}x^{5/2} + \frac{9}{2}$ 4. $\frac{1 \pm \sqrt{17}}{2}$
5. -3 6. $3x + 4y - 14 = 0$ 7. $\frac{q+1}{h-k-6}$
8. $(x-2)^2 + (y+1)^2 = \frac{4}{5}$
center: $(2, -1)$
radius: $\frac{2}{\sqrt{5}}$
9. -8 10. $(-\infty, \frac{2}{3}]$

Test 1C

1. $\frac{8(x-1)}{(3x-2)^{5/3}}$ 2. $\frac{-2}{x(x+h)}$
3. $x^{5/2} - \sqrt{3}x^{4/3} + \frac{3}{4}$ 4. $\frac{1 \pm \sqrt{41}}{4}$
5. -1 6. $2x - 3y + 14 = 0$ 7. $\frac{5x}{d-x}$
8. $(x+3)^2 + (y+2)^2 = \frac{9}{4}$
center: $(-3, -2)$
radius: $\frac{3}{2}$
9. $-\frac{2}{3}$ 10. $[\frac{1}{4}, \infty)$

Test 1D

1. $\frac{5(x+6)}{2(x+3)^{5/2}}$ 2. $\frac{4}{x(x+h)}$
3. $x^{5/2} - \frac{4}{\sqrt{3}}x^{5/3} + \frac{4}{5}$ 4. $1 \pm \sqrt{6}$
5. 2 6. $5x + 3y - 26 = 0$ 7. $-\frac{2x+2y}{2x+3y^2}$
8. $(x-\frac{1}{2})^2 + (y-1)^2 = \frac{3}{2}$
center: $(\frac{1}{2}, 1)$
radius: $\sqrt{\frac{3}{2}}$
9. 5 10. $[-\frac{2}{3}, \infty)$

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