
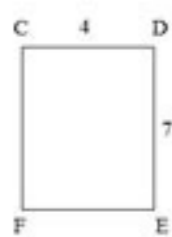


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SUBMIT

SAT Subject Test - Math Level 2 Practice III

6) If rectangle CDEF is rotated about side DE, it creates a cylinder of volume:



- a) 28π
- b) 56π
- c) 98π
- d) 112π
- e) 196π

7) Find m and p :

$$\begin{bmatrix} 2 & 3 \\ -1 & 4 \end{bmatrix} \begin{bmatrix} 0 & m \\ 3 & p \end{bmatrix} = \begin{bmatrix} 9 & 6 \\ 12 & 19 \end{bmatrix}$$

- a) $m = 3$
 $p = 15$
- b) $m = -3$
 $p = 4$
- c) $m = 1$
 $p = 16$
- d) $m = 2$
 $p = 5$
- e) $m = 5$
 $p = -3$

8) A pole is 20 feet high. A taut wire that is 46 feet extends from the top of the pole to the ground. What is the angle of depression, to the nearest degree, from the top of the pole to the bottom of the wire?

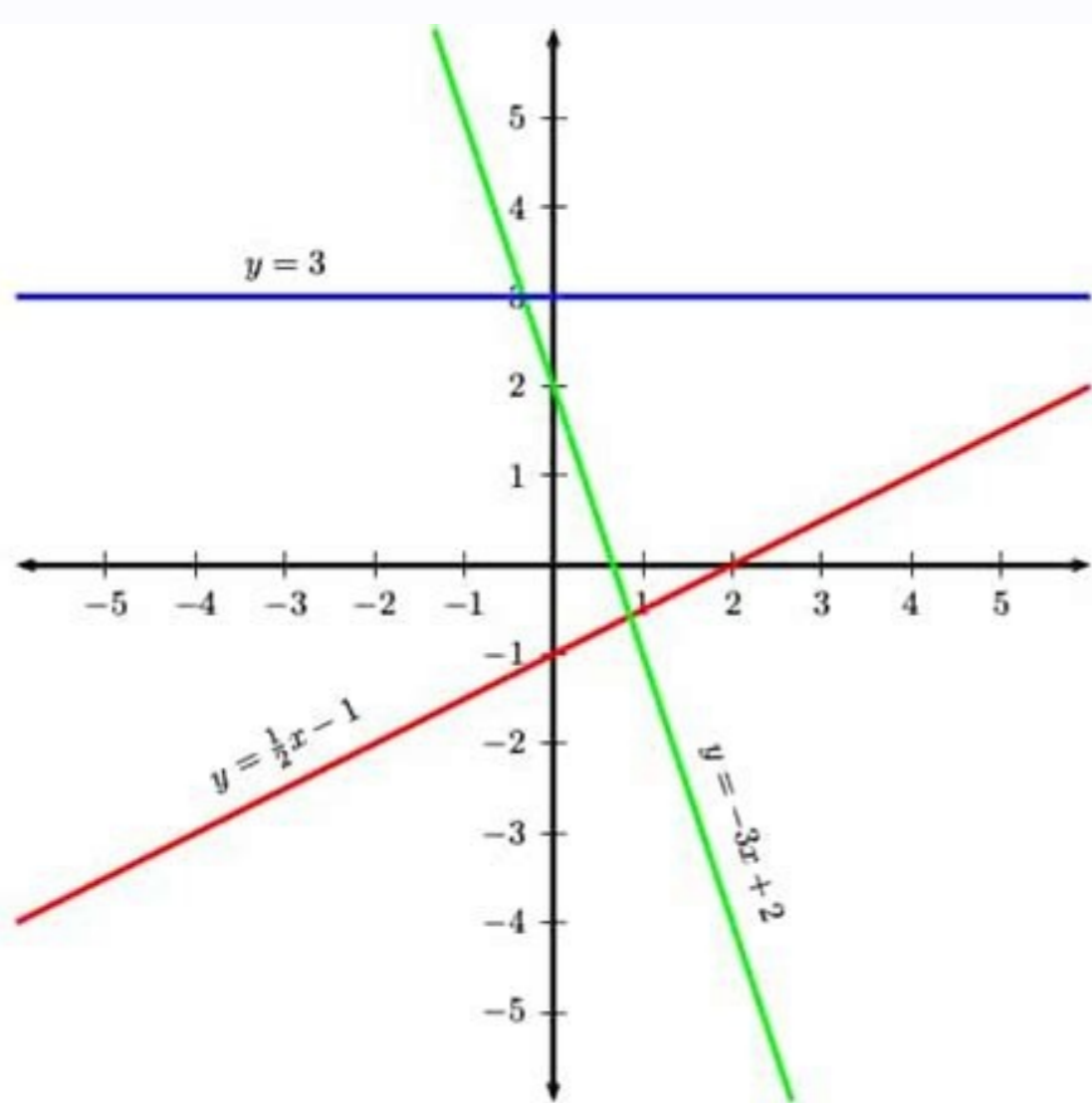
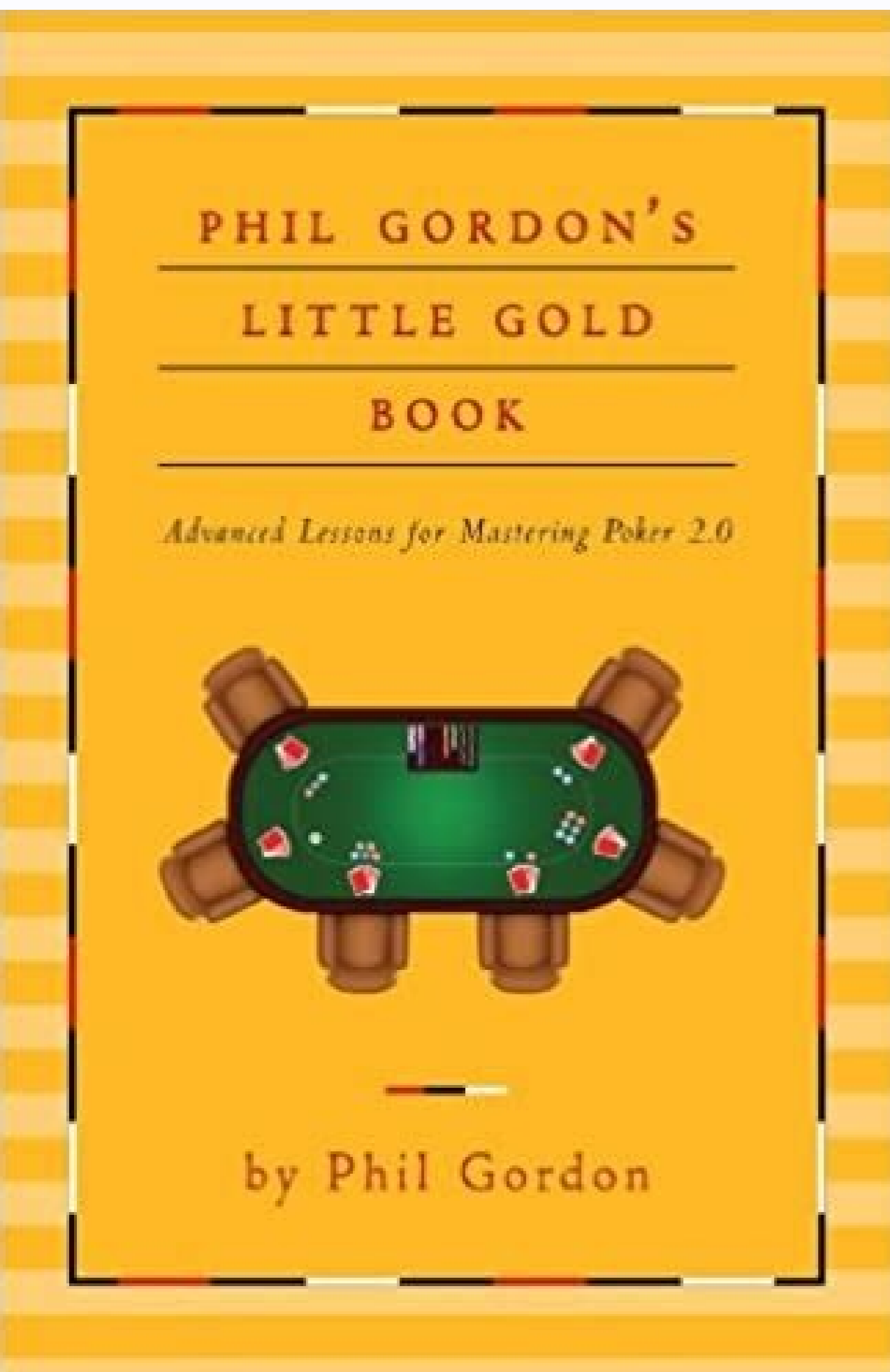
- a) 23
- b) 26
- c) 43
- d) 64
- e) 67

9) Identify the range of the greatest integer function $y = \lfloor x - 3 \rfloor$ for $-3 < x < 3$

- a) $-5 < x < 0$
- b) $-6 < x < 0$
- c) $-7 < x < -1$
- d) $x = -6, -5, -4, -3, -2, -1, 0$
- e) $x = -6, -5, -4, -3, -2, -1$

10) $4x^2 + 6 \div 2 =$

- a) 15
- b) 10
- c) 21
- d) 28
- e) 35



1. $x dy + y dx = d(xy)$
2. $d(x + y) = dx + dy$
3. $d\left(\frac{y}{x}\right) = \frac{x dy - y dx}{x^2}$
4. $d\left(\frac{x}{y}\right) = \frac{y dx - x dy}{y^2}$
5. $d\left(\frac{x^2}{y}\right) = \frac{2xy dx - x^2 dy}{y^2}$
6. $d\left(\frac{y^2}{x}\right) = \frac{2xy dy - y^2 dx}{x^2}$
7. $d\left(\frac{x^2}{y^2}\right) = \frac{2xy^2 dx - 2x^2 y dy}{y^4}$
8. $d\left(\frac{y^2}{x^2}\right) = \frac{2x^2 y dy - 2xy^2 dx}{x^4}$
9. $\frac{x dy + y dx}{xy} = d(\log xy)$
10. $\frac{y dx - x dy}{xy} = d\left(\log \frac{x}{y}\right)$
11. $\frac{x dy - y dx}{xy} = d\left(\log \frac{y}{x}\right)$
12. $\frac{dx + dy}{x + y} = d \log(x + y)$
13. $\frac{x dx + y dy}{x^2 + y^2} = d\left(\log \sqrt{x^2 + y^2}\right)$
14. $\frac{x dy - y dx}{x^2 + y^2} = d\left(\tan^{-1} \frac{y}{x}\right)$
15. $\frac{y dx - x dy}{x^2 + y^2} = d\left(\tan^{-1} \frac{x}{y}\right)$
16. $d\left(\frac{-1}{xy}\right) = \frac{x dy + y dx}{x^2 y^2}$
17. $d\left(\frac{e^x}{y}\right) = \frac{y e^x dy - e^x dx}{y^2}$
18. $d\left(\frac{e^y}{x}\right) = \frac{x e^y dy - e^y dx}{x^2}$
19. $d(\sqrt{x^2 + y^2}) = \frac{x dx + y dy}{\sqrt{x^2 + y^2}}$
20. $d(x^m y^n) = x^{m-1} y^{n-1} (m y dx + n x dy)$
21. $d\left(\frac{1}{2} \log \frac{x+y}{x-y}\right) = \frac{x dy - y dx}{x^2 - y^2}$
22. $\frac{d[f(x, y)]^{1-n}}{1-n} = \frac{f'(x, y)}{[f(x, y)]^n}$
23. $d\left(\frac{1}{y} - \frac{1}{x}\right) = d\left(\frac{1}{y}\right) - d\left(\frac{1}{x}\right) = \frac{dx}{x^2} - \frac{dy}{y^2}$

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