

AP Calculus
Day 30 Warm Up

Name _____

Date _____

1. If $f(x) = \sin x \cos x$, then $f'(\frac{\pi}{6}) =$

a) $\sqrt{3} - 1$

b) $\sqrt{3}$

c) $\frac{\pi^2}{3} - 1$

d) $\frac{1}{2}$

e) $\frac{\pi^2}{3}$

2. If $f(x) = \pi - \sin x + (\pi x)$, then $f'(\pi) =$

a) $\frac{\pi}{2}$

b) $\frac{4}{\pi}$

c) $\pi + 1$

d) $\pi - 1$

e) 2π

3. If $f(x) = (x^3 + 4x^2 - 12x + 8)(3x^2 - 9x + 7)$, then find $f'(1)$.

a) -4

b) 4

c) -3

d) 3

e) 7

4. Find the slope of the tangent line to the graph of $f(x) = -3x^2(x^2 + 2)$ at the point where $x = -1$.

a) 6

b) -6

c) 0

d) 24

e) -24

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1.
Answer: d
CodePath: EAS.APC.E.B.11
2.
Answer: c
CodePath: EAS.APC.E.B.13
3.
Answer: a
CodePath: EAS.APC.E.B.40
4.
Answer: d
CodePath: EAS.APC.E.C.8