1)
$$q_1 | \cos x \cos x + \sin x \cos x = \cos^3 x \sin^2 x = \cos 2x$$

(2) $\frac{3 \ln(2x+1)^2}{2x d 2} = \frac{1}{(2x+1)^3} \cdot \frac{3(2x+1)^2}{x^3} = \frac{3}{2x+1}$

(3) $\sin(\ln x^3)' = \cos(\ln x^3) \cdot \frac{1}{x^3} \cdot \frac{3x^2}{3x^2} = \cos(\ln x^3) \cdot \frac{3}{x}$

(4) $\frac{8x^3 \cdot \ln x - x^9/x}{\ln^2 x} = x^3 \cdot \frac{(4/16x-1)}{\ln^2 x}$

(5) $\sin(x^2 + 3x) \cdot (2x+3) = \sin(x^2 + 3x^2) \cdot (2x^2 + 3)$

(6) $(3x^2 - 2x - 1)(1 + 2x + 3x^2 - 4x^3) - (x^3 - x^2 - x - 1)(2 + 6x - 72x^2)$

(7) $(3x^2 - 2x - 1)(1 + 2x + 3x^2 - 4x^3) = (x^3 - x^2 - x - 1)(2 + 6x - 72x^2)$

(8) $(3x^2 - 2x - 1)(1 + 2x + 3x^2 - 4x^3) = (x^3 - x^2 - x - 1)(2 + 6x - 72x^2)$

(9) $(3x^2 - 2x - 1)(1 + 2x + 3x^2 - 4x^3) = (x^3 - x^2 - x - 1)(2 + 6x - 72x^2)$

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$$\frac{1}{1} = 2-1=2$$

$$\frac{1}{2} = 2-1=2$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{3} = \frac{1}{3}$$