

อนุพันธ์

จงหาอนุพันธ์ต่อไปนี้

1. $f(x) = 5$

$f'(x) =$

2. $f(x) = 16x$

$f'(x) =$

3. $f(x) = x^3$

$f'(x) =$ x

4. $f(x) = 5x^4$

$f'(x) =$ x

5. $f(x) = x^3 + x^2$

$f'(x) =$ $x +$ x

6. $f(x) = x^4 - x^5$

$f'(x) =$ $x -$ x

7. $f(x) = \frac{1}{2}x^4$

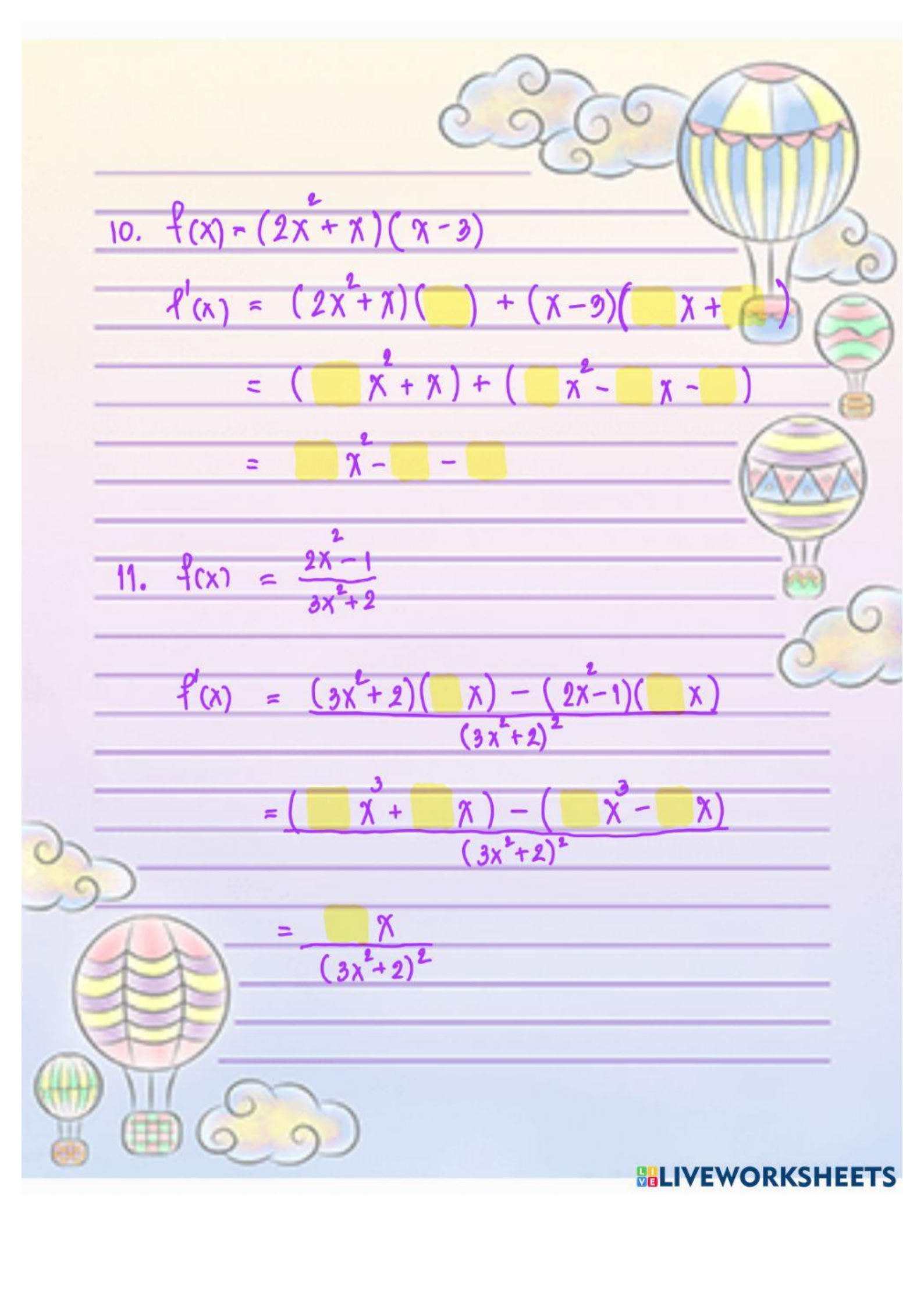
$f'(x) =$ x

8. $f(x) = \sqrt{x}$

$f'(x) =$ $\sqrt{x}$

9. $f(x) = 2x^2 + x - 3$

$f'(x) =$ $x +$



10. $f(x) = (2x^2 + x)(x - 3)$

$$f'(x) = (2x^2 + x)(\quad) + (x - 3)(\quad x + \quad)$$

$$= (\quad x^2 + x) + (\quad x^2 - \quad x - \quad)$$

$$= \quad x^2 - \quad - \quad$$

11. $f(x) = \frac{2x^2 - 1}{3x^2 + 2}$

$$f'(x) = \frac{(3x^2 + 2)(\quad x) - (2x^2 - 1)(\quad x)}{(3x^2 + 2)^2}$$

$$= \frac{(\quad x^3 + \quad x) - (\quad x^3 - \quad x)}{(3x^2 + 2)^2}$$

$$= \frac{\quad x}{(3x^2 + 2)^2}$$