

1) $(x+1)^2 = x^2 + 2x + 1$

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

3) $(x-1,5)^2 - 2,5 = (x-\frac{3}{2})^2 - \frac{5}{2} = x^2 - 3x + \frac{9}{4} - \frac{10}{4}$
 $= x^2 - 3x - \frac{1}{4}$

4) $(x-\frac{1}{3})^2 - \frac{2}{3} = x^2 - \frac{2}{3}x + \frac{1}{9} - \frac{6}{9} = x^2 - \frac{2}{3}x - \frac{5}{9}$

5) $5(x-1)(x-4) = 5(x^2 - 4x - x + 4) = 5x^2 - 25x + 20$

6) $-2(x-4)(x+2) = -2(x^2 + 2x - 4x - 8) = -2x^2 + 4x + 16$

7) $7(x+7)(x+3) = 7(x^2 + 3x + 7x + 21) = 7x^2 + 70x + 147$

8) $-\frac{1}{2}(x-\frac{1}{4})(x-\frac{2}{5}) = -\frac{1}{2}(x^2 - \frac{2}{5}x - \frac{1}{4}x + \frac{2}{20})$
 $= -\frac{1}{2}x^2 + \frac{1}{5}x + \frac{1}{8}x - \frac{1}{20}$
 $= -\frac{1}{2}x^2 + \frac{13}{40}x - \frac{1}{20}$

2) 1) $\frac{2}{3} - \frac{7}{3} = -\frac{5}{3}$

2) $\frac{3}{14} + \frac{2}{21} = \frac{3}{7 \times 2} + \frac{2}{7 \times 3} = \frac{3 \times 3 + 2 \times 2}{7 \times 2 \times 3}$
 $= \frac{13}{42}$

3) $-\frac{7}{6} - \frac{-4}{18} = -\frac{21}{18} + \frac{4}{18} = -\frac{17}{18}$

4) $\frac{12}{48} - \frac{5}{8} = \frac{12}{48} + \frac{30}{48} = \frac{42}{48} = \frac{6 \times 7}{6 \times 8} = \frac{7}{8}$

$$\boxed{3} \quad 1) \frac{2}{3} \times \frac{3}{7} = \frac{2}{7}$$

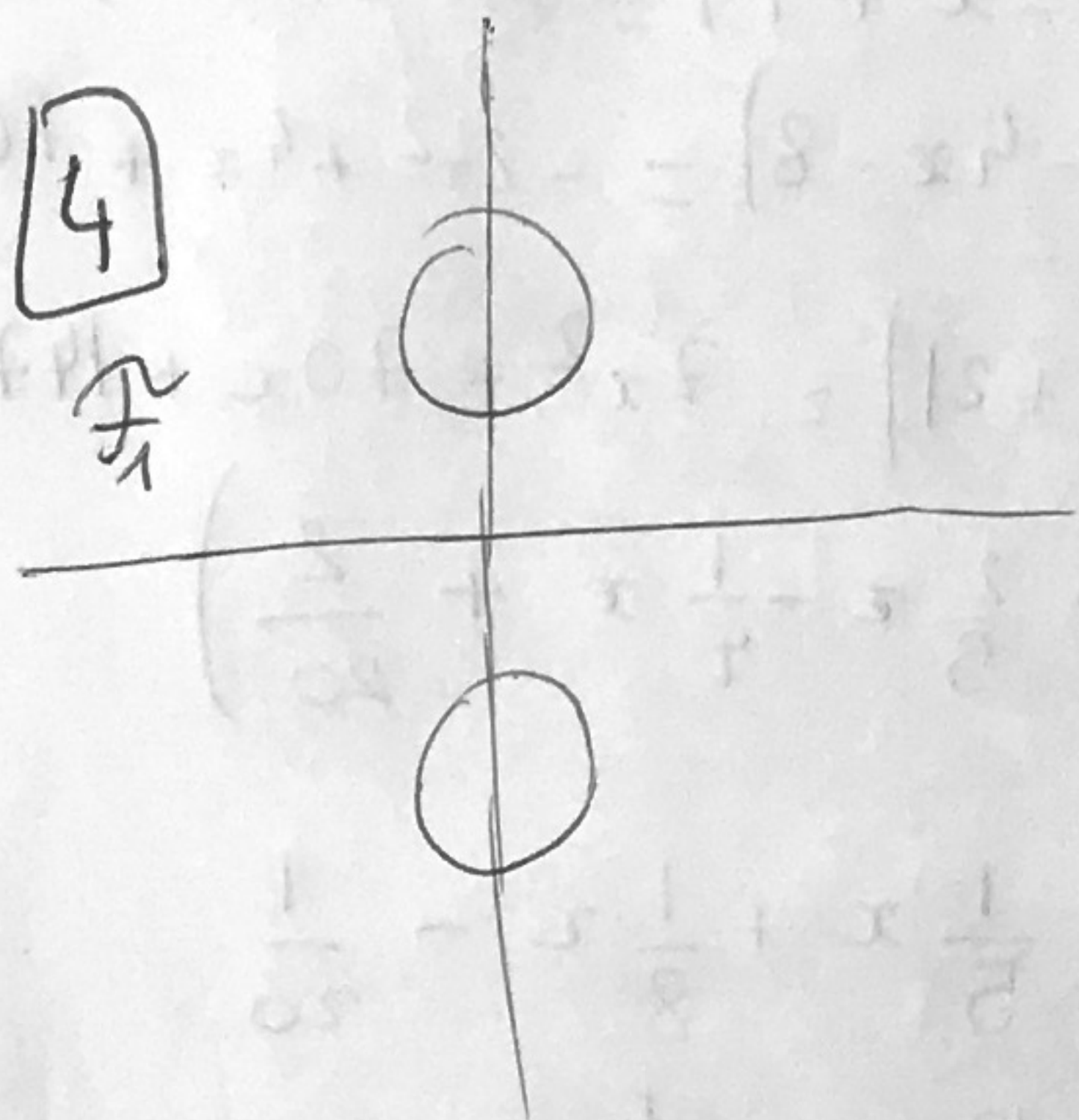
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$$2) \frac{3}{-14} \times \frac{-21}{-6} = - \frac{3 \times \cancel{3} \times \cancel{7}}{2 \times \cancel{7} \times \cancel{3} \times 2} = - \frac{3}{4}$$

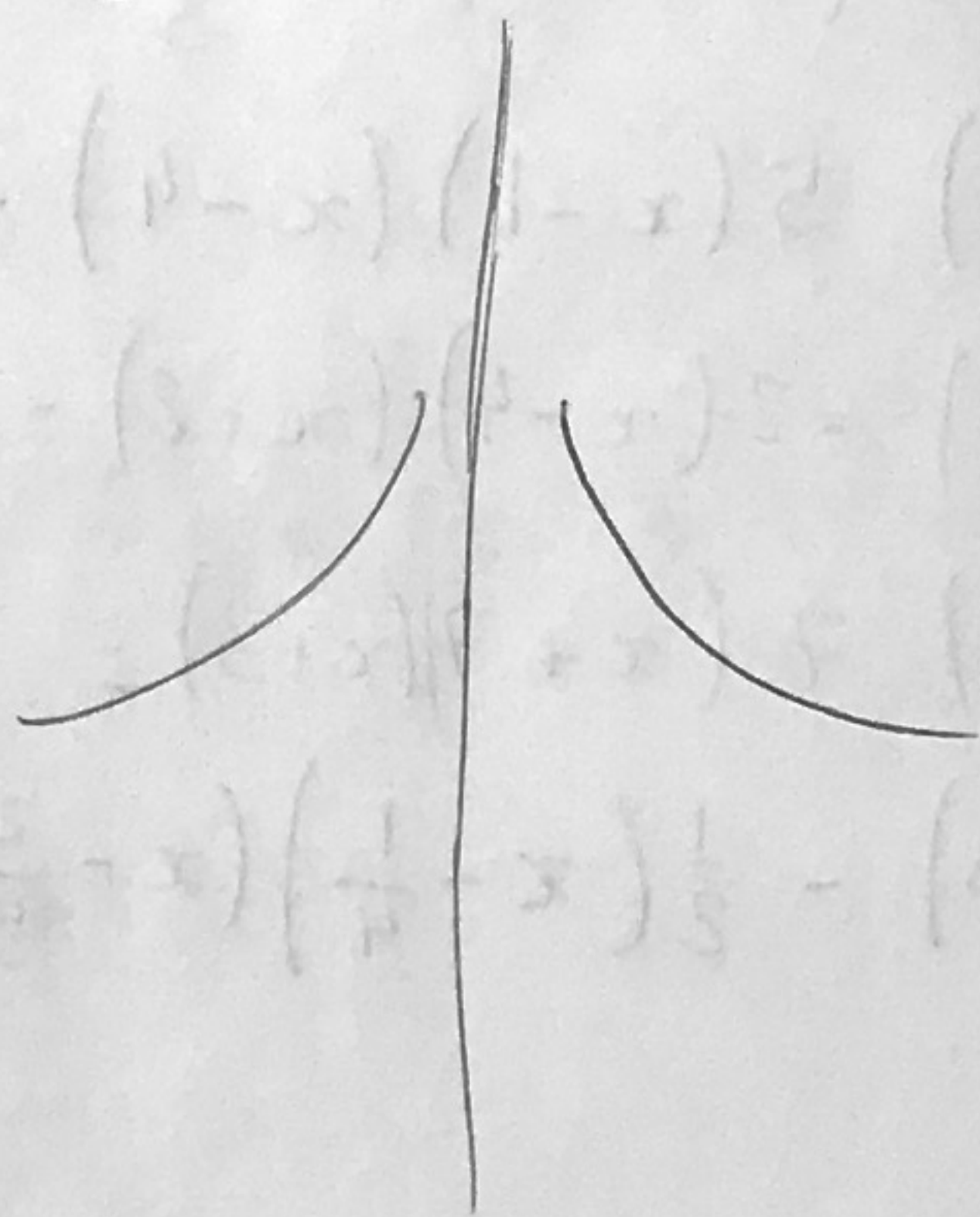
$$3) - \frac{51}{6} \times \frac{12}{34} = - \frac{\cancel{17} \times 3 \times \cancel{6} \times 2}{6 \times \cancel{17} \times 2} = 3$$

$$4) \frac{12}{48} \times \frac{5}{8} = \frac{12}{12 \times 4} \times \frac{5}{\cancel{8}} = \frac{5}{32}$$

$\boxed{4}$
 f_1



f_2



f_3

