

- ① a) $\{2, 3, 1, 4\}$
 b) $\{3, 5, 4, -3\}$
 c) $\{(2, 3), (3, 5), (3, 4), (1, 3), (4, 5)\}$
 d) one item in domain paired

with one item in range

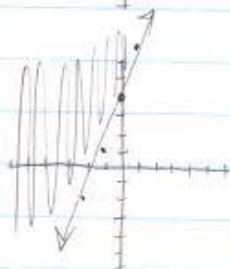
② 15

③ 4

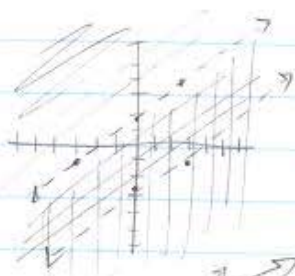
④



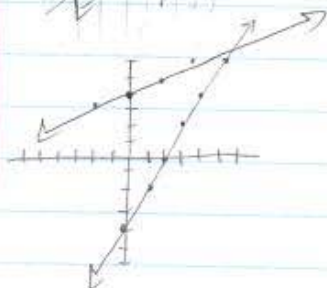
⑤



⑥



⑦



⑧ $6x^3 - 12x^2 + 21x$

⑨ $8x^9 y^{18}$

⑩ $\frac{y^6}{2x^7 z^3}$

⑪ $-72x^{16} y^{13}$

⑫ 5

⑬ $\frac{a+b}{2a+b}$

⑭ $2\sqrt{105}$

⑮ $\frac{\sqrt{35}}{7}$

⑯ $4a^2 |b| \sqrt{2b}$

⑰ $b\sqrt{2}$

⑱ $6x^2 - 5x - 4$

⑲ $6x^3 - 13x^2 + 9x - 2$

⑳ $x^2 + 8x + 16$

㉑ $-x^2 + x + 3$

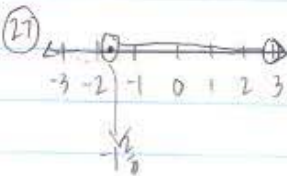
㉒ $11x^3 + 5x^2 - 2x - 3$

㉓ $2x^2 - 2x - \frac{8}{2x-1}$

㉔ $\frac{(x+7)(x-2)}{(x+4)(x+1)}$

㉕ $\frac{(x-2)(2x+3)}{5}$

㉖ $\frac{x-2}{x+2}$



㉗ $x < \frac{3}{4}$

㉘ $x = \frac{43}{5}$

㉙ $x = 3, 5$

㉚ $x = 1.18, .85$

㉛ $a = -1$

㉜ $\frac{4}{3} \leq x \leq b$

㉝ $(-1, 3)$

㉞ $x = 9$

㉟ $x - y + 3 = 0$

㊱ $y = \frac{3}{2}x + 7$

㊲ $x + 2y + 4 = 0$

㊳ $x^2 + 12^2 = 18^2$

㊴ $2x = 3(x+1) - 12$

㊵ $1400 \text{mi} = r \cdot 4 \text{hr}$
 $450 \text{mi} = r \cdot 1.5 \text{hr}$

㊶ $2x + x + y = 23$

$.05(2x) + .10(x) + .25(y) = 2.45$

㊷ $x + y = 12$
 $y = x + 2$

㊸ $3900 = k(12)$

㊹ $300 = \frac{1}{k}(48)$

㊺ $\frac{35}{44}$

㊻ $\frac{17 + 8\sqrt{2}}{23}$

㊼ a. $\sqrt{221}$ b. $(1, \frac{5}{2})$

㊽ 82 sq units

㊾ $4.86 \cdot 10^{20}$

㊿ a. $(x-2)(x^2+2x+4)$
 b. $6x^5 y^2 (5y^2 - 2x)$
 c. $(5x-3)(x-2)$