

Riviera International Academy

Assignment-2077

(Bhadra 09, 2077, Tuesday)

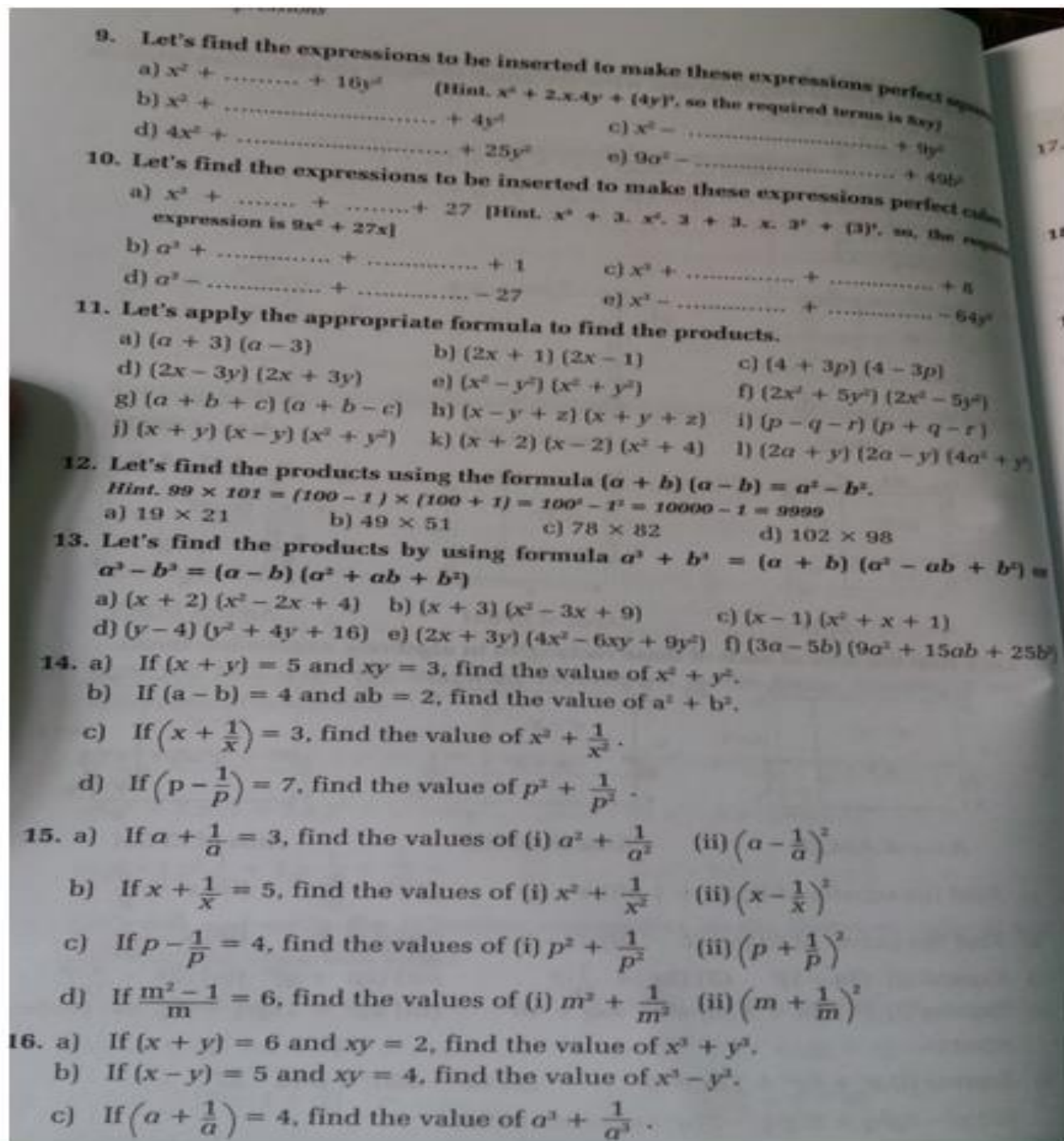
Class: Eight

Subject- Mathematics

Source: Photos of exercise are given below.

Work: Complete all the exercise from given pages.

Do your work neatly



- d) If $(m - \frac{1}{m}) = 3$, find the value of $m^2 - \frac{1}{m^2}$.
17. a) If $a + b = 2$, find the value of $a^3 + b^3 + 6ab$.
- b) If $x + y = 5$, find the value of $x^3 + y^3 + 15xy$
- c) If $x - y = 3$, find the value of $x^3 - y^3 - 9xy$
- d) If $a - b = 7$, find the value of $a^3 - b^3 - 21xy$

18. Simplify.

- a) $(a + b)^2 + (a - b)^2$ b) $(x + y)^2 - (x - y)^2$ c) $(2p - 3)^2 + (2p + 3)^2$
- d) $(3x + y)^2 - (3x - y)^2$ e) $(x + \frac{1}{x})^2 + (x - \frac{1}{x})^2$ f) $(2 - \frac{1}{a})^2 - (2 + \frac{1}{a})^2$

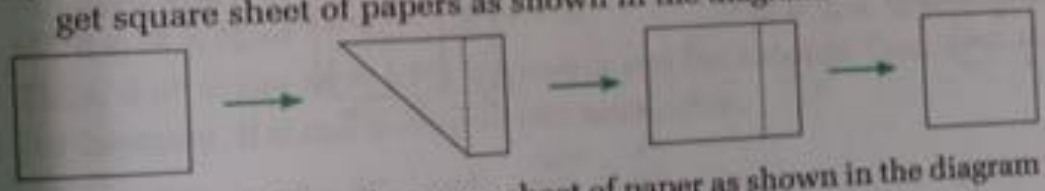
19. Simplify.

- a) $\frac{2.1 \times 2.1 - 0.9 \times 0.9}{2.1 - 0.9}$ b) $\frac{3.6 \times 3.6 - 1.4 \times 1.4}{3.6 + 1.4}$
- c) $\frac{2.5 \times 2.5 \times 2.5 - 1.4 \times 1.4 \times 1.4}{(2.5)^2 + 2.5 \times 1.4 + (1.4)^2}$ d) $\frac{2.7 \times 2.7 \times 2.7 + 1.8 \times 1.8 \times 1.8}{(2.7)^2 - 2.7 \times 1.8 + (1.8)^2}$

It's your time - Project work

Paper folding:

20. a) Let's take a few rectangular sheet of papers (photocopy paper). Then fold them to get square sheet of papers as shown in the diagrams.



b) Again, let's fold each square sheet of paper as shown in the diagram and complete the sums.

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

(ii) $= \dots = \dots = \dots$

(iii) $= x^2 - 1^2 = \dots = \dots$

(iv) $= \dots = \dots = \dots$

Subject- HPE

1. Define nervous system.
2. What are the different types of neurons?

Subject-OBT

Prepare for oral test. Lesson 1, 2 and 3.

Subject- Science

1. What is alkali metal and why? In which group of modern periodic table they belong?
2. What is skeleton equation? The molecular formula of common salt is NaCl. What does it express?
3. Why Mendeleev periodic table is defective than Modern periodic table? Give two reasons.

The End.