Title : Focus SPM Mathematics KSSM Form 4.5
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Page number and section	Error	Correction
pg 28 Chapter 3 Logical Reasoning Example 4	By using the word "not" and "no", write the negation (~p) for each of the following statements (p). Solution (c) $\sqrt{49} \neq 8$ Example 5 Solution (b) Rhombus is a rectangle. True	By using the word "not" or "no", write the negation (~p) for each of the following statements (p). Solution (d) $\sqrt{64} \neq 8$ Example 5 Solution (b) Rhombus is not a rectangle. True
pg 32 Example 14 Solution (b)	(b) <table><tr><th>Statement</th><th>True / False</th></tr><tr><td>Implication: If $y > 8$, then $y > 10$.</td><td>False</td></tr><tr><td>Converse: If $y > 10$, then $y > 8$.</td><td>True</td></tr><tr><td>Inverse: If $y < 8$, then $y < 10$.</td><td>True</td></tr><tr><td>Contrapositive: If $y < 10$, then $y < 8$.</td><td>False</td></tr></table>	(b) <table><tr><th>Statement</th><th>True / False</th></tr><tr><td>Implication: If $y > 8$, then $y > 10$.</td><td>False</td></tr><tr><td>Converse: If $y > 10$, then $y > 8$.</td><td>True</td></tr><tr><td>Inverse: If $y \leqslant 8$, then $y \leqslant 10$.</td><td>True</td></tr><tr><td>Contrapositive: If $y \leqslant 10$, then $y \leqslant 8$.</td><td>False</td></tr></table>
pg 33 Example 16 Solution (b)	(b) Inverse: If $x > 5$, then $x > 8$. False Counter-example: $x = 6$	(b) Inverse: If $x \geqslant 5$, then $x \geqslant 8$. False Counter-example: $x = 6$
pg 337 Answers **Chapter 3 Logical Reasoning Try This! 3.1**	**15.** (b) Converse: If $x > y$, then $x - y > 0$. Inverse: If $x - y < 0$, then $x < y$. Contrapositive: If $x < y$, then $x - y < 0$. (c) Converse: If $a > 0$, then $y = ax^2 + bx + c$ has a minimum point. Inverse: If $y = ax^2 + bx + c$ has no minimum point, then $a < 0$. Contrapositive: If $a < 0$, then $y = ax^2 + bx + c$ has no minimum point.	**15.** (b) Converse: If $x > y$, then $x - y > 0$. Inverse: If $x - y \leqslant 0$, then $x \leqslant y$. Contrapositive: If $x \leqslant y$, then $x - y \leqslant 0$. (c) Converse: If $a > 0$, then $y = ax^2 + bx + c$ has a minimum point. Inverse: If $y = ax^2 + bx + c$ has no minimum point, then $a \leqslant 0$. Contrapositive: If $a \leqslant 0$, then $y = ax^2 + bx + c$ has no minimum point.
pg 338 Answers **Chapter 3 Logical Reasoning**	**16.** Implication: If $x > 6$, then $x > 4$. (True) Converse: If $x > 4$, then $x > 6$. (False) Inverse: If $x < 6$, then $x < 4$. (False) Contrapositive: If $x < 4$, then $x < 6$. (True)	**16.** Implication: If $x > 6$, then $x > 4$. (True) Converse: If $x > 4$, then $x > 6$. (False) Inverse: If $x \leqslant 6$, then $x \leqslant 4$. (False) Contrapositive: If $x \leqslant 4$, then $x \leqslant 6$. (True)

Try This! 3.1	**20.** (c) Contrapositive: If $m > 5$, then $m > 8$. (False) Counter-example: $m = 6$	**20.** (c) Contrapositive: If $m \geqslant 5$, then $m \geqslant 8$. (False) Counter-example: $m = 6$
pg 339 Answers **Chapter 3 Logical Reasoning SPM Practice 3**	**7.** (c) Converse: If $a - b > 0$, then $a > b$. Inverse: If $a < b$, then $a - b < 0$. Contrapositive: If $a - b < 0$, then $a < b$.	**7.** (c) Converse: If $a - b > 0$, then $a > b$. Inverse: If $a \leqslant b$, then $a - b \leqslant 0$. Contrapositive: If $a - b \leqslant 0$, then $a \leqslant b$.

	8.
	(a) (ii) Implication: If $x > 8$, then $x > 10$. (false)
	    Counter-example: $x = 9$
	Converse: If $x > 10$, maka $x > 8$. (true)
	Inverse: If $x < 8$, then $x < 10$. (true)
	Contrapositive: If $x < 10$, then $x < 8$. (false)
	    Counter-example: $x = 9$
		8.
		(a) (ii) Implication: If $x > 8$, then $x > 10$. (false)
		    Counter-example: $x = 9$
		Converse: If $x > 10$, maka $x > 8$. (true)
		Inverse: If $x \leqslant 8$, then $x \leqslant 10$. (true)
		Contrapositive: If $x \leqslant 10$, then $x \leqslant 8$. (false)
		    Counter-example: $x = 9$

pg 100 no. 13	**13.** Ahmad wanted to fence a rectangular land with width of x m and length of y m. The installation of this fence should follow the conditions below. (i) The total length of the fence shall be less than 140 m.	**13.** Ahmad wants to fence a rectangular land with a width of x m and a length of y m. The installation of this fence should follow the conditions below. (i) Ahmad has a fence which is less than 140 m.