**Pairs of Angles Page 2 Solutions**

**Part A**: 1.a) $∠$BFC & $∠BFA$ b) $∠DFE$ & $∠AFE$ c) $∠AFC$ d) $∠AFB$ e) $∠AFE$ f) $∠EFA long way$ g) $∠DFE$ & $∠AFB$ 2.a) 300 CAT b) 700 SAT c) x=1100 SAT, y=700 OAT d) x=600 SAT, y=1200 SAT

**Part B**: 1.a) supplementary b) opposite c) supplementary d) complementary 2.a) $∠SPU$ b)$ ∠UPR$ c) $∠UPT Long way around$ d) $∠TPU$ & $∠QPR$ e) $∠TPU$ & $∠TPS$ f) $∠TPU$ & $∠TPR$

3.

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| --- | --- | --- | --- |
|  | Angle | Complement | Supplement |
| a |  | 500 | 1400 |
| b |  | 180 | 1080 |
| c |  | 740 | 1640 |
| d |  | 00 | 900 |
| e |  | -------- | 800 |
| f | 700 |  | 1100 |
| g | 600 | 300 |  |
| h | 1350 | --------- |  |

4.a) 180 CAT b) 1160 SAT c) x=1380 SAT, y=420 OAT d) x=500 SAT, y=400 CAT e) x=250 CAT f) x=1220 SAT, z=1220 SAT, y=580 OAT g) x=580 SAT, y=610 OAT h) x=500 SAT i) 300 OAT j) x=500 CAT, y=1500 SAT k) x=50 SAT, y=1650 OAT l) x=250 CAT, y=70 OAT 5.a) 90 - x b) 180 – x c) 180 - (90 – x) = 90 + x

**Part C**: 2.a) x=1100 OAT, y=700 SAT, z= 1100 AIA b) x=650 CIA, y=650 OAT, z=1150 OAT c) x=500 CIA, y=500 CIA, z=500 AIA d) x=1150 CIA, y=350 AIA e) x=280 AIA, y=470 CIA f) x=1050 SAT, y=75 AIA, z=1050 CIA g) x=1100 CA, w=700 SAT, z=700 AIA