





**GO TO EXERCISE 11a AND THEN TO THE KEY FOR THE DETAILED SUBSTITUTIONS**

	Meters and Days					
	d	$h_{\max}$	$h_{x=12.5}$	$h_{x=37.5}$	q <sub>riv</sub>	q <sub>can</sub>
<u>Group 1</u>						
K=0.01	18.17	5.92	5.85	4.98	-0.00498	+0.00872
w=0.000274						
<u>Group 2</u>						
K=1x10 <sup>-4</sup>	24.93	41.58	36.13	36.00	-0.00683	+0.00687
w=0.000274						
<u>Group 3</u>						
K=1x10 <sup>0</sup>	-658.28	12.03	4.63	3.48	+0.18035	+0.19405
w=0.000274						
<u>Group 4</u>		(min)				
K=0.01	38.66	2.35	3.86	2.36	+0.00530	-0.00155
w= -0.000137						
<u>Group 5</u>						
K=0.01	-infinity	infinity	4.62	3.46	+0.00187	+0.00187
w=0.0						

Group 5: q same as using Dupuit approx dh/dx with avg h for b

	Meters and Days			Arrows Conceptual Only
	d	q <sub>riv</sub>	q <sub>can</sub>	
<u>Group 1</u>				
K=0.01	18.17	-0.00498	+0.00872 = 0.0137	↓ ← →
Recharge=0.0137				
<u>Group 2</u>				
K=1x10 <sup>-4</sup>	24.93	-0.00683	+0.00687 = 0.0137	↓ ← →
Recharge=0.0137				
<u>Group 3</u>				
K=1x10 <sup>0</sup>	-658.28	+0.18035	+0.19405 = 0.0137	↓ → →
Rexharge=0.0137				
<u>Group 4</u>				
K=0.01	38.66	+0.00530	-0.00155 = 0.00685	↑ → ←
Discharge=0.00685				
<u>Group 5</u>				
K=0.01	-infinity	+0.00187	+0.00187 = 0	→ →
w=0.0				

Group 5: q same as using Dupuit approx dh/dx with avg h for b